

SERVICE MANUAL

17" LCD Monitor BU1715



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T780KA4NJSMA	46-58

Revision List

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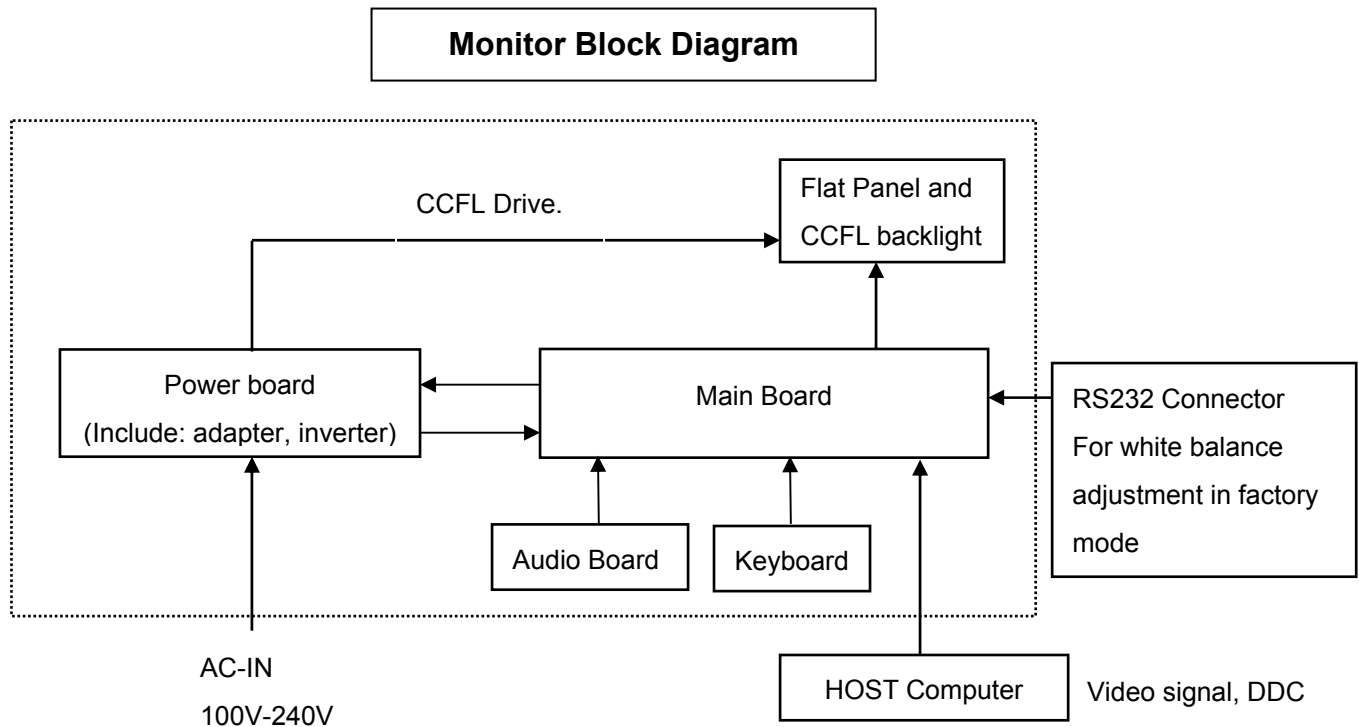
1. Monitor Specifications

LCD Panel	Driving system	TFT Color LCD
	Panel	M170EG01
	Size	43.2 cm (17.0")
	Pixel pitch	0.264mm(H) x 0.264mm(V)
	Viewable angle	140° (H) 130° (V)
	Response time	16 ms (typ.)
Input	Video	R, G, B Analog Interface
	Separate Sync.	H/V TTL
	H-Frequency	24kHz – 80kHz
	V-Frequency	55Hz-75Hz
Display Colors		16.2M Colors
Dot Clock		135MHz(max.)
Max. Resolution		1280 x 1024
Plug & Play		VESA DDC2B™
EPA ENERGY STAR®	ON Mode	≤39W
	OFF Mode	≤2W
Audio output		Rated Power 1.2 W rms (Per channel)
Input Connector		D-Sub 15pin
Input Video Signal		Analog:0. 7Vp-p(standard) 75 OHM, Positive
Maximum Screen Size		Horizontal : 337.920mm Vertical: 270.336mm
Power Source		100~240VAC,50~60Hz
Environmental		Operating Temp: 0° to 35°C Storage Temp.: -20° to 60°C Operating Humidity: 15% to 90%

2. LCD Monitor Description

The LCD MONITOR will contain a main board, an inverter/power board, an audio board and a keypad board which house the flat panel control logic, brightness control logic and DDC.

The power board will provide AC to DC Inverter voltage to drive the backlight of panel and the main board chips each voltage.



3. Operating Instructions

3.1 General Instructions

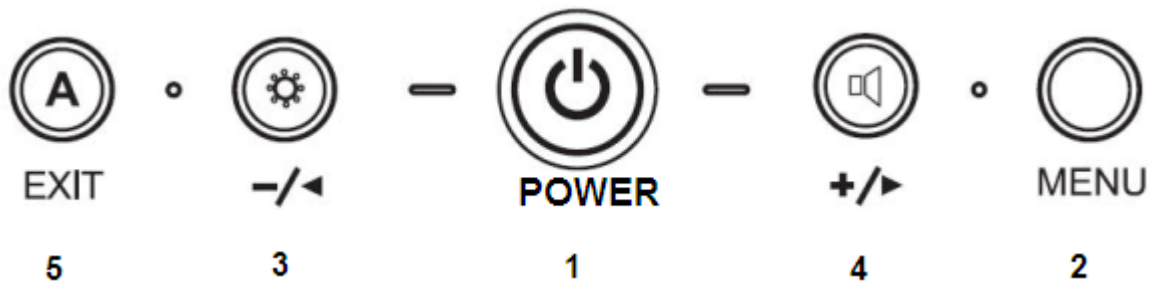
Press the power button to turn the monitor on or off. The other control buttons are located at front panel of the monitor. By changing these settings, the picture can be adjusted to your personal preferences.

-The power cord should be connected.

-Connect the video cable from the monitor to the video card.

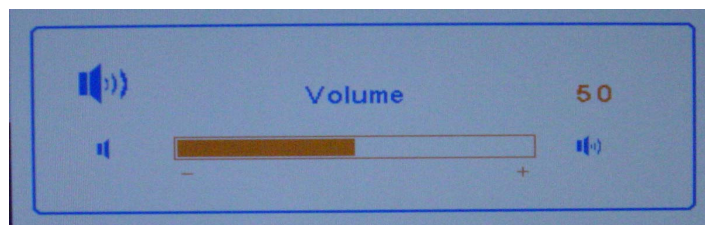
-Press the power button to turn on the monitor, the power indicator will light up.

3.2 Operating Instructions



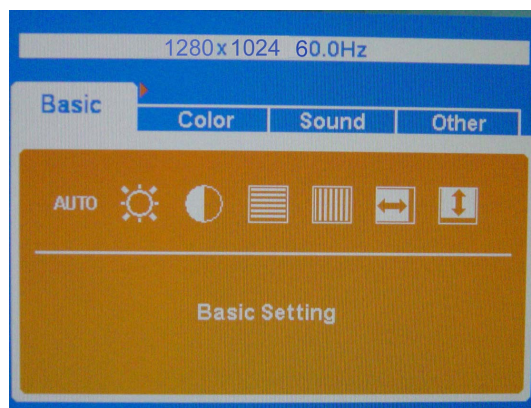
NO.	Item	Within OSD	Without OSD
1	Power Button	Turn on/off	Turn on/off
2	MENU Button	1.Enter the OSD sub menu 2.Select the OSD menu	Open OSD menu
3	Left Arrow/- Button	1.Move the cursor to left 2.Adjust down when menu item selected	Open Bright menu
4	Right Arrow/+ Button	1.Move the cursor to left 2.Adjust down when menu item selected	Open the Volume menu
5	Exit Button	1.Exit Sub menu 2. Exit the menu item	Run the Auto Adjust when this button keep to push for 1 second

Hot keys



Button	Function	Remark
Left Arrow/- Button	To change the ECO mode and MAX mode and User mode	The item adjust the power consumption to change the luminance
Right Arrow/+ Button	To Adjust the Volume	When Mute function is ON, if they change the volume then mute function is off
Exit Button	To run the Auto Adjust	When this button keep to push for 1 seconds








3.3 Adjusting the Picture












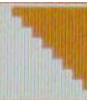




Steps:

1. Press MENU button to display OSD main menu, Press Left button or Right button may select other main Menu.
2. Press MENU button to adjust items of each main menu.
3. Press Left button or Right button may select item you wish to enter.
4. Press MENU button to enter, and press Left button or Right button to adjust item you select.
5. Press EXIT button may back previous menu.
6. Repeat steps 2-5 to adjust an additional item, or select the EXIT button to return to previous menu.

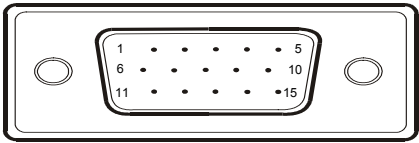
The description for control function:

Main Menu Item	Sub Menu Item	Sub Menu Icon	Description
Basic	Auto		Auto Adjust the H/V Position, Phase and Clock of picture
	Brightness		Backlight Adjustment
	Contrast		Contrast from Digital-register
	Phase		Adjust Picture Phase to reduce Horizontal-Line noise
	Clock		Adjust picture Clock to reduce Vertical-Line noise
	H. Position		Adjust the horizontal position of the picture
	V. Position		Adjust the vertical position of the picture

Main Menu Item	Sub Menu Item	Sub Menu Icon	Description
Color	Auto		Auto adjust color
	Color Temp		Recall Color Temperature from EEPROM
	Red Setting		Red Gain from Digital-register
	Green Setting		Green Gain from Digital-register
	Blue Setting		Blue Gain from Digital-register
Sound	Volume		Audio adjustment
	Mute		Audio prohibition
Other	OSD language		OSD language selection (English or Japanese)
	OSD H-Position		Adjust the horizontal position of the OSD
	OSD V-Position		Adjust the vertical position of the OSD
	OSD Transparency		OSD Transparency adjustment
	Smoothing		Smoothing adjustment
	Information		Show the resolution, H/V frequency and input port of current input timing
	Reset		Recall factory mode

4. Input Specification

4.1 Input Signal Connector

PIN NO.	Description	PIN NO.	Description
1.	Red	9.	+5V
2.	Green	10.	Detect Cable
3.	Blue	11.	NC
4.	Ground	12.	DDC-Serial Data
5.	Ground	13.	H-Sync
6.	R-Ground	14.	V-Sync
7.	G-Ground	15.	DDC-Serial Clock
8.	B-Ground		
VGA Connector Layout			
			

4.2 Factory Present Display Modes

VESA MODES							
			Horizontal		Vertical		
Mode	Resolution	Total	Nominal Frequency +/- 0.5kHz	Sync Polarity	Nominal Freq. +/- 1 Hz	Sync Polarity	Nominal Pixel Clock (MHz)
VGA	640x480@60Hz	800 x 525	31.469	N	59.940	N	25.175
	640x480@72Hz	832 x 520	37.861	N	72.809	N	31.500
	640x480@75Hz	840 x 500	37.500	N	75.00	N	31.500
SVGA	800x600@56Hz	1024 x 625	35.156	N/P	56.250	N/P	36.000
	800x600@60Hz	1056 x 628	37.879	P	60.317	P	40.000
	800x600@72Hz	1040 x 666	48.077	P	72.188	P	50.000
	800x600@75Hz	1056x625	46.875	P	75.000	P	49.500
XGA	1024x768@60Hz	1344x806	48.363	N	60.004	N	65.000
	1024x768@70Hz	1328x806	56.476	N	70.069	N	75.000
	1024x768@75Hz	1312x800	60.023	P	75.029	P	78.750
	1024x768@72Hz	1304x798	57.7	P	72	P	78.4
MAC	1024x768@75Hz	1326x804	60.2	P	75	P	80
	1152x870@75Hz	1456x915	68.7	P	75	P	100
SXGA	1152x864@75Hz	1600x900	67.5	P	75	P	108
	1280x1024@60Hz	1688x1066	63.981	P	60.020	P	108.000
	1280x1024@75Hz	1688x1066	79.976	P	75.025	P	135.000
	1280x960@60Hz	1800x1000	60	P	60	P	108
	1280x1024@70Hz	1720x1064	74.4	P	70	P	124.9
	1280x1024@72Hz	1724x1066	77.9	P	72	P	134.6
IBM MODES							
			Horizontal		Vertical		
Mode	Resolution	Total	Nominal Frequency +/- 0.5kHz	Sync Polarity	Nominal Freq. +/- 1 Hz	Sync Polarity	Nominal Pixel Clock (MHz)
DOS*	720x400@70Hz	900 x 449	31.469	N	70.087	P	28.322
DOS	640x350@70Hz	800 x 449	31.469	P	70.087	N	25.175
MAC MODES							
VGA	640x480@67Hz	864x525	35.000	N	66.667	N	30.240
SVGA	832x624@75Hz	1152x667	49.725	N	74.551	N	57.2832

4.3 Power Supply Requirement

NO.	Parameter	Description
1	A/C Line voltage range	100 V ~ 240 V
2	A/C Line frequency range	50 \pm 3Hz, 60 \pm 3Hz
3	Input Voltage transients	280 volts AC for 10 sec @40°C
4	Current	1.5A max at 100V; 0.8A max at 240 V
5	Peak surge current	< 60A peak at 240 VAC and cold starting < 30A peak at 120VAC and cold starting
6	Leakage current	< 3.5mA
7	Power line surge	No advance effects (no loss of information or defect) With a maximum of 1 half-wave missing per second

4.4 Panel Specification

4.4.1 Panel Feature

This specification applies to the 17.0 inch Color TFT/LCD Module M170EG01 V0.

This module is designed for a display unit of personal computer.

The display supports the SXGA (1280(H) x 1024(V)) screen format and 16.2M colors (RGB 6-bits + FRC data).

All input signals are 2 Channel LVDS interface compatible.

This module does not contain an inverter card for backlight.

4.4.2 General Characteristics

ITEMS	Unit	SPECIFICATIONS			
Screen Diagonal	[mm]	432(17.0")			
Active Area	[mm]	337.920 (H) x 270.336(V)			
Pixels H x V		1280(x3) x 1024			
Pixel Pitch	[mm]	0.264 (per one triad) x 0.264			
Pixel Arrangement		R.G.B. Vertical Stripe			
Display Mode		Normally White			
White Luminance	[cd/m ²]	260 (Typ)			
Contrast Ratio		450 : 1 (Typ)			
Optical Rise Time/Fall Time	[msec]	16 (Typ)			
Color Saturation		72% NTSC			
Nominal Input Voltage VDD	[Volt]	+5.0 V			
Power Consumption (VDD line + CCFL line)	[Watt]	25.8 W(Typ) (PDD=6 W, PCFL=19.8 W @Lamp=7.5mA)			
Weight	[Grams]	1900 (Typ)			
Physical Size	[mm]		Min.	Typ.	Max.
		Horizontal(H)	358	358.5	359.0
		Vertical(V)	296	296.5	297
		Depth(D)	16.5	17.0	17.5
Electrical Interface		Dual Channel LVDS			
Support Color		16.2M colors (RGB 6-bit + FRC data)			
Surface treatment		Anti-glare, hard coating (3H)			
Temperature Range					
Operating	[°C]	0 to +50			
Storage (Shipping)	[°C]	-20 to +60			
TCO'03 Compliance		Meet TCO'03 regulation			

4.4.3 Optical Characteristics

Item	Unit	Conditions	Min.	Typ.	Max.	Note
Viewing Angle	[degree]	Horizontal (Right) CR = 10 (Left)	60 60	70 70	-	-
		Vertical (Up) CR = 10 (Down)	60 50	70 60	-	-
		Horizontal (Right) CR = 5 (Left)	70 70	80 80		
		Vertical (Up) CR = 5 (Down)	70 70	80 80		
Contrast ratio		Normal Direction	250	450	-	-
Response Time	[msec]	Rising Time	-	12	20	Note 1
		Falling Time	-	4	5	
		Rising + Falling	-	16	25	
Color / Chromaticity Coordinates (CIE)		Red x	0.61	0.64	0.67	-
		Red y	0.31	0.34	0.37	-
		Green x	0.26	0.29	0.32	-
		Green y	0.58	0.61	0.64	-
		Blue x	0.11	0.14	0.17	-
		Blue y	0.04	0.07	0.10	-
Color Coordinates (CIE) White		White x	0.28	0.31	0.34	-
		White y	0.30	0.33	0.36	-
White Luminance @ CCFL 7.5mA (center)	[cd/m ²]		210	260		-
Luminance Uniformity	[%]		75	80		Note 2
Crosstalk (in 75Hz)	[%]				1.5	Note 3
Flicker	dB				-20	Note 4

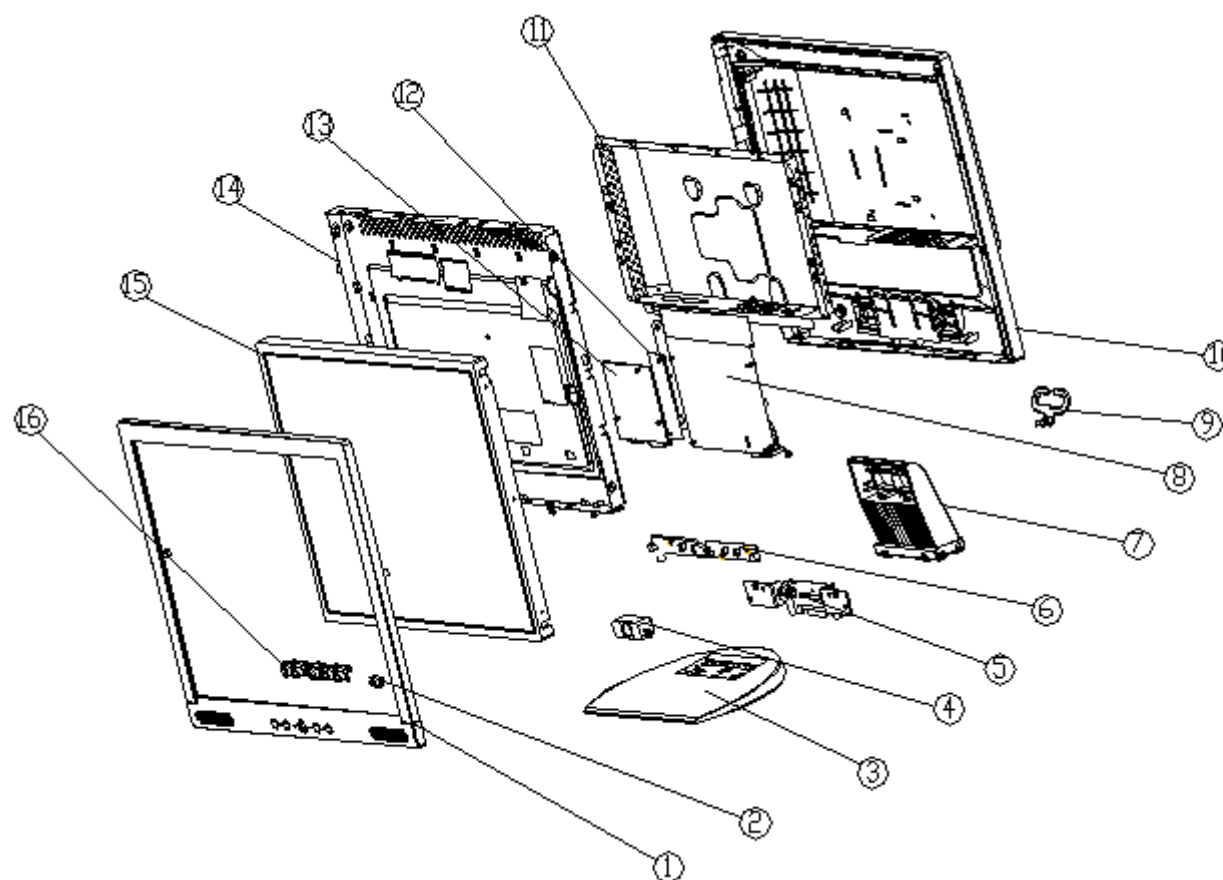
4.4.4 Parameter Guider Liner For CCFL Inverter

Backlight Unit:

Symbol	Parameter	Min.	Typ.	Max.	Unit	Condition
ISCFL	CCFL standard current	7.0	7.5	8.0	[mA] rms	(Ta=25°C) Note 1
IRCFL	CCFL operation range	3.0	7.5	8.0	[mA] rms	(Ta=25°C)
FCFL	CCFL Frequency	40	60	80	[KHz]	(Ta=25°C) Note 2
ViCFL (0°C)	CCFL Ignition Voltage (End of the lamp wire connector)	1500	-	-	[Volt] rms	(Ta=0°C)
ViCF (25°C)	CCFL Ignition Voltage (End of the lamp wire connector)	1150	-	-	[Volt] rms	(Ta=25°C)
VCFL	CCFL Operation Voltage	-	660 @7.5mA	700 @3.0mA	[Volt] rms	(Ta=25°C) Note 1
PCFL	CCFL Power consumption (for reference)	-	19.8	21.8	[Watt]	(Ta=25°C) Note 3
LTCFL	CCFL life Time	30,000	50,000	-	[Hour]	(Ta=25°C) Note 4

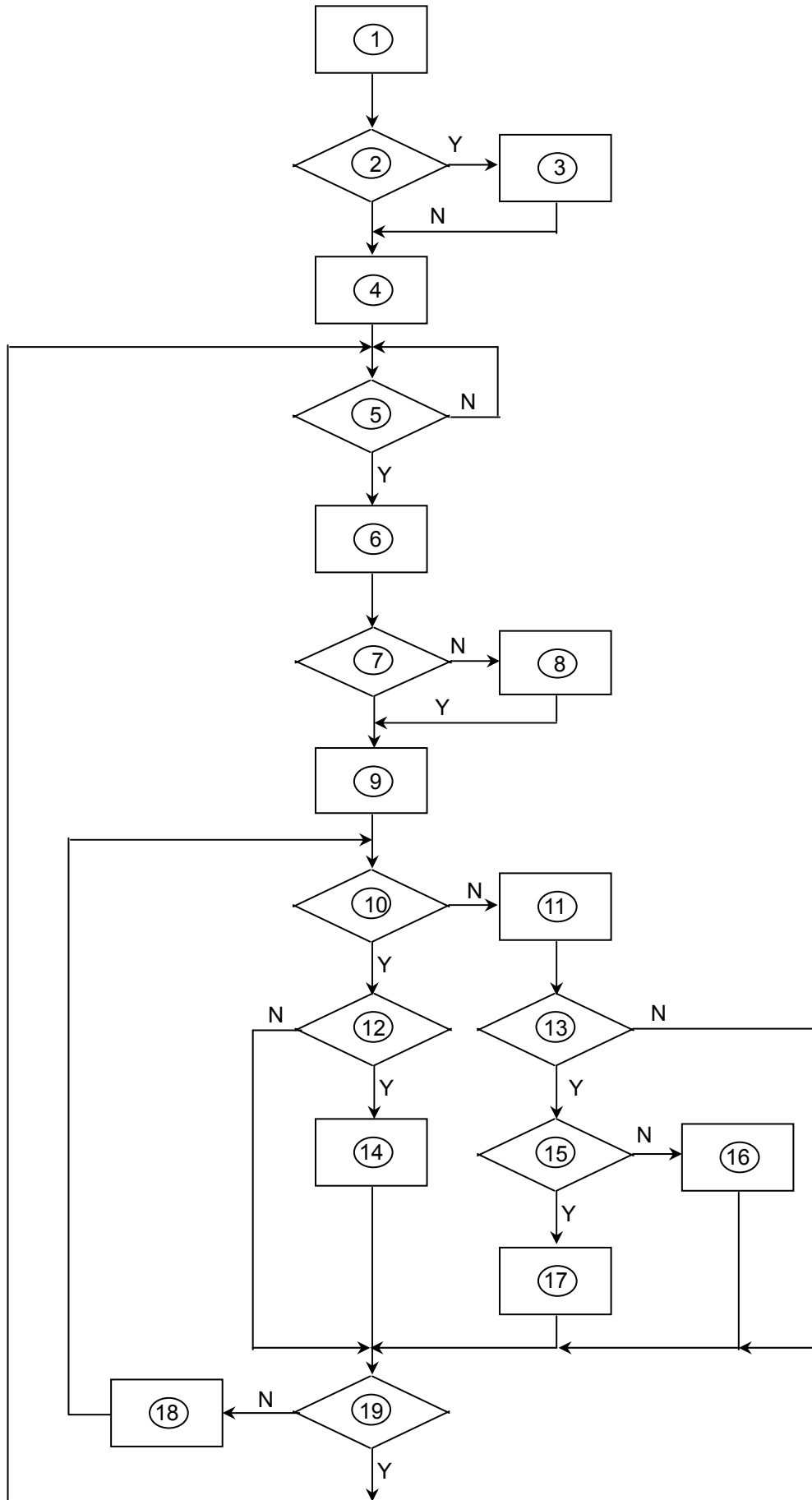
5. Block Diagram

5.1 Monitor Exploded View



ITEM	NAME	TYPE
1	BEZEL	PART
2	LED	PART
3	BASE	PART
4	SPEAKER	PART
5	HINGE	PART
6	KEY BOARD	ASSEMBLY
7	STAND	PART
8	POWER BOARD	ASSEMBLY
9	CLAMP	PART
10	REARCOVER	PART
11	MAIN SHIELD	PART
12	AUDIO BOARD	ASSEMBLY
13	MAIN BOARD	ASSEMBLY
14	MAIN FRAME	PART
15	PANEL	PART
16	KEY PAD	PART

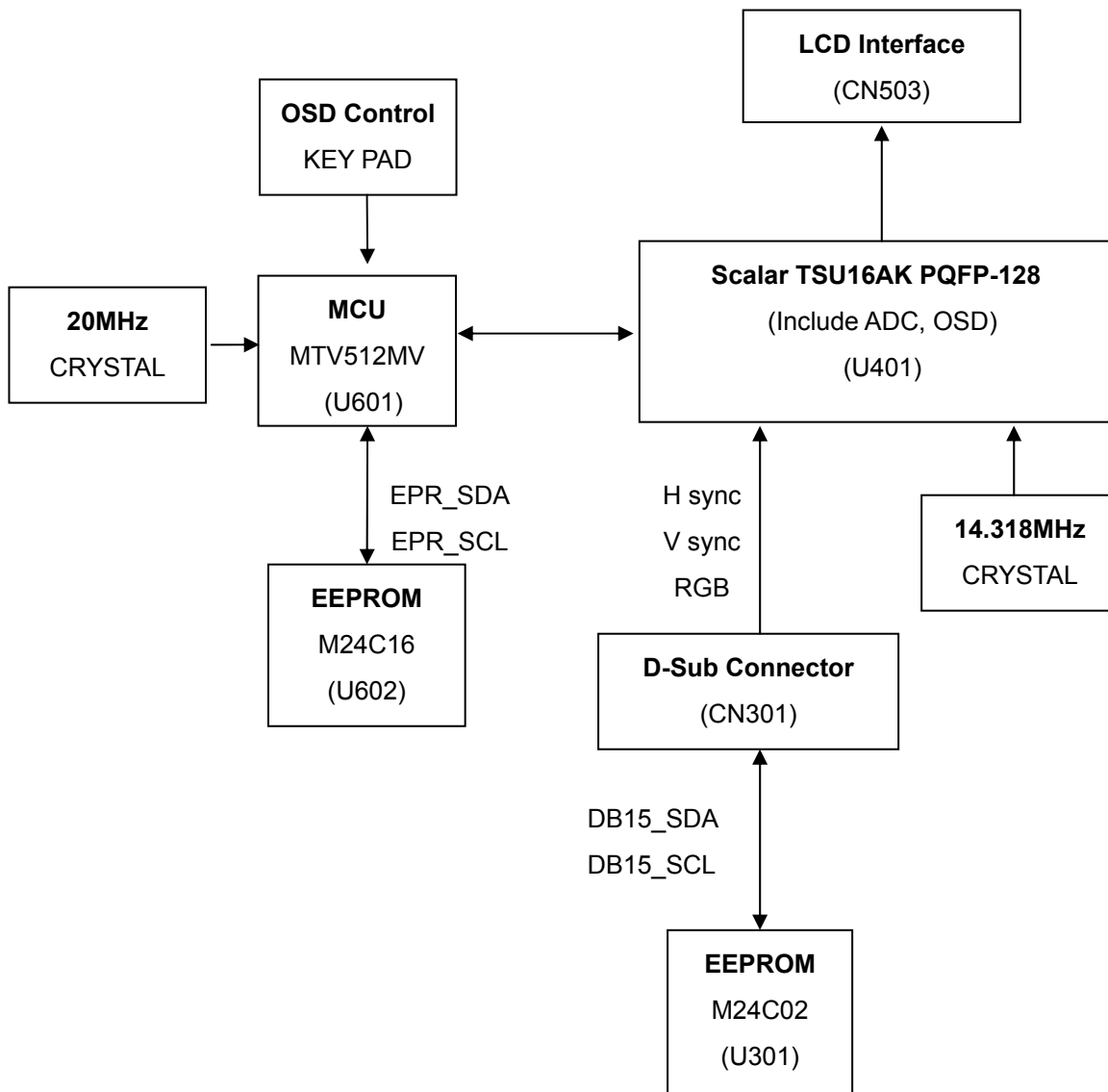
5.2 Software Flaw Chart



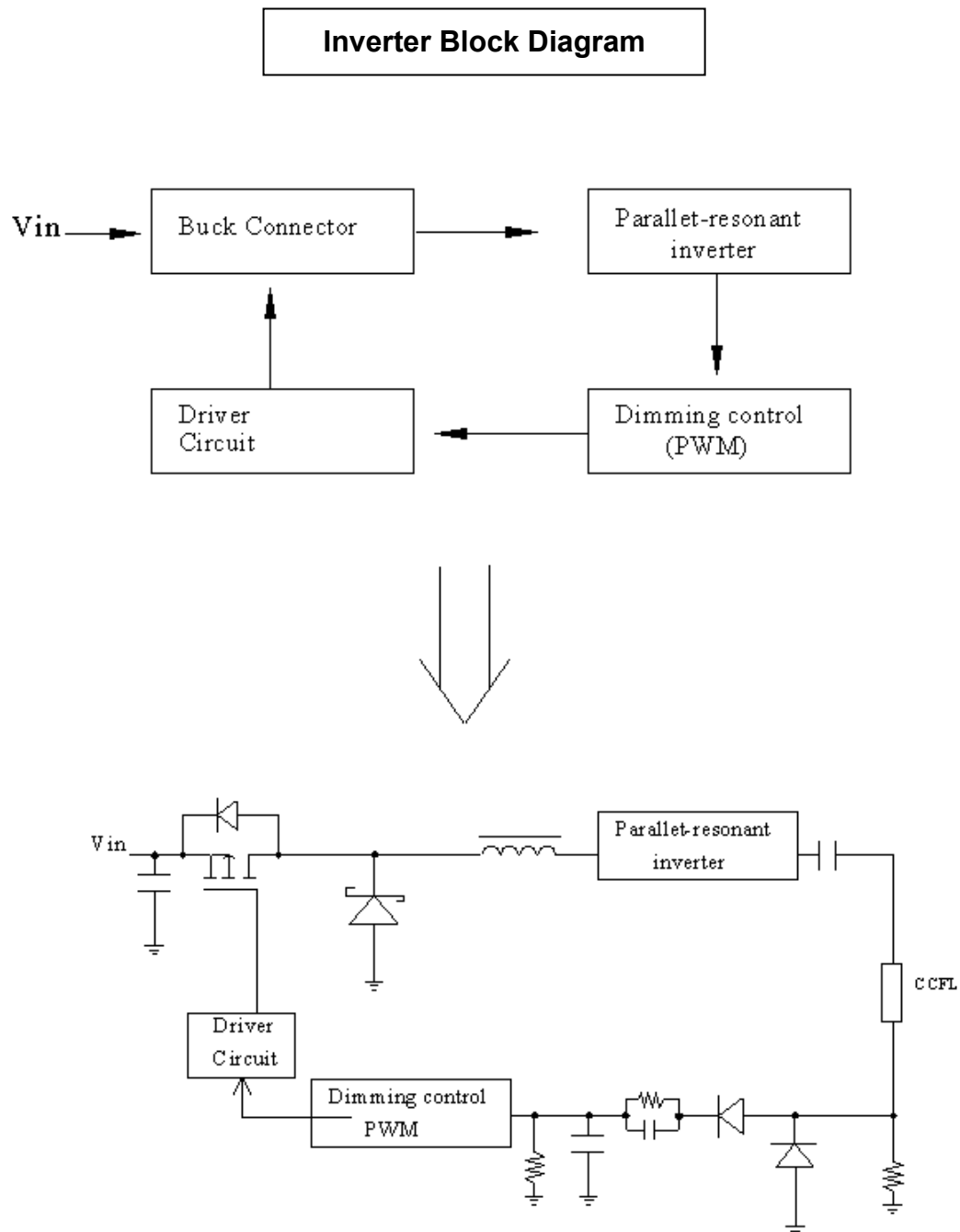
1) MCU initializes.
2) Is the EEPROM blank?
3) Program the EEPROM by default values.
4) Get the PWM value of brightness from EEPROM.
5) Is the power key pressed?
6) Clear all global flags.
7) Are the AUTO and SELECT keys pressed?
8) Enter factory mode.
9) Save the power key status into EEPROM. Turn on the LED and set it to green color. Scalar initializes.
10) In standby mode?
11) Update the lifetime of back light.
12) Check the analog port, are there any signals coming?
13) Does the scalar send out an interrupt request?
14) Wake up the scalar.
15) Are there any signals coming from analog port?
16) Display "No connection Check Signal Cable" message. And go into standby mode after the message disappears.
17) Program the scalar to be able to show the coming mode.
18) Process the OSD display.
19) Read the keyboard. Is the power key pressed?

5.3 Electrical Block Diagram

5.3.1 Scaler Board Block Diagram

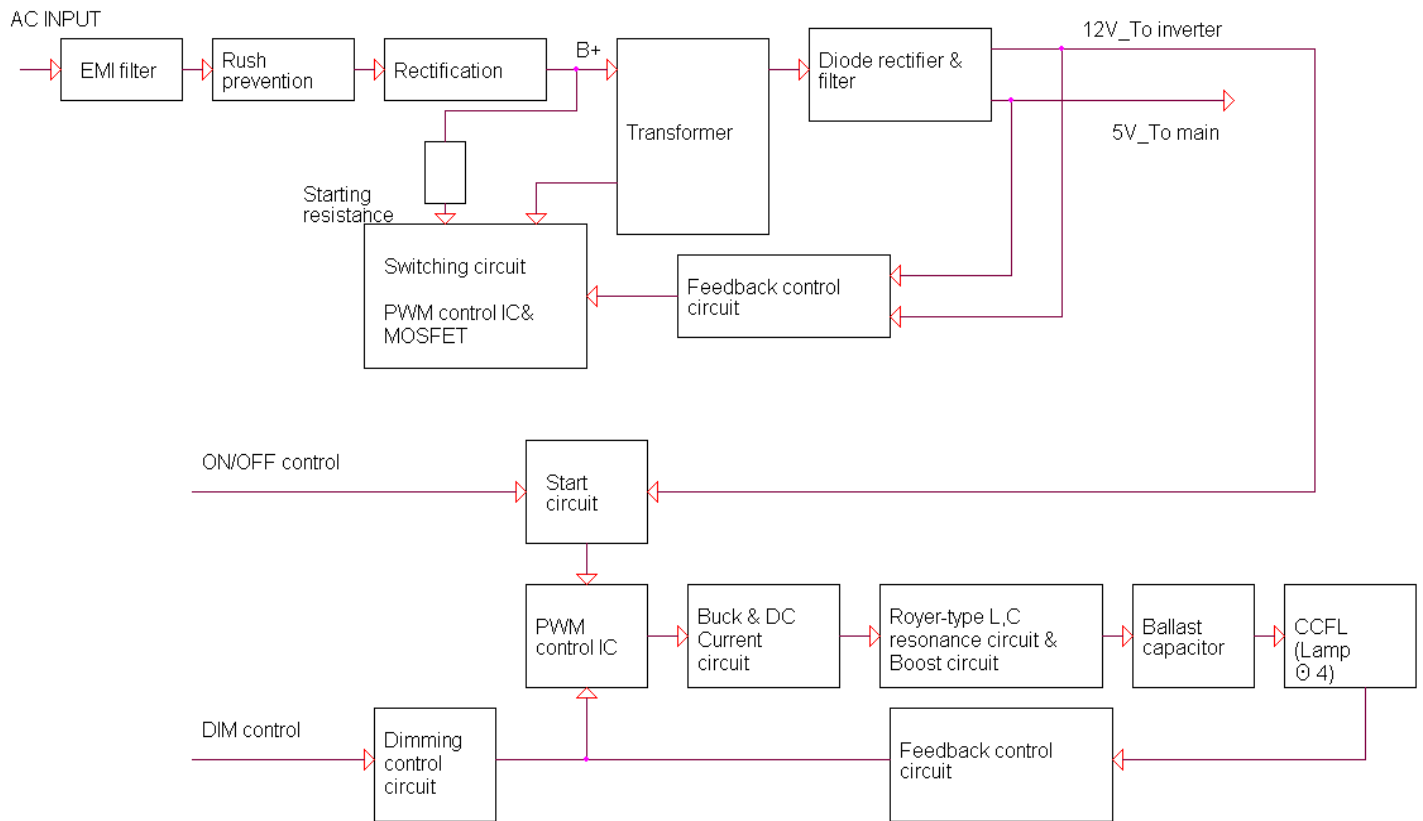


5.3.2 Inver/Power Board Block Diagram



Power Block Diagram

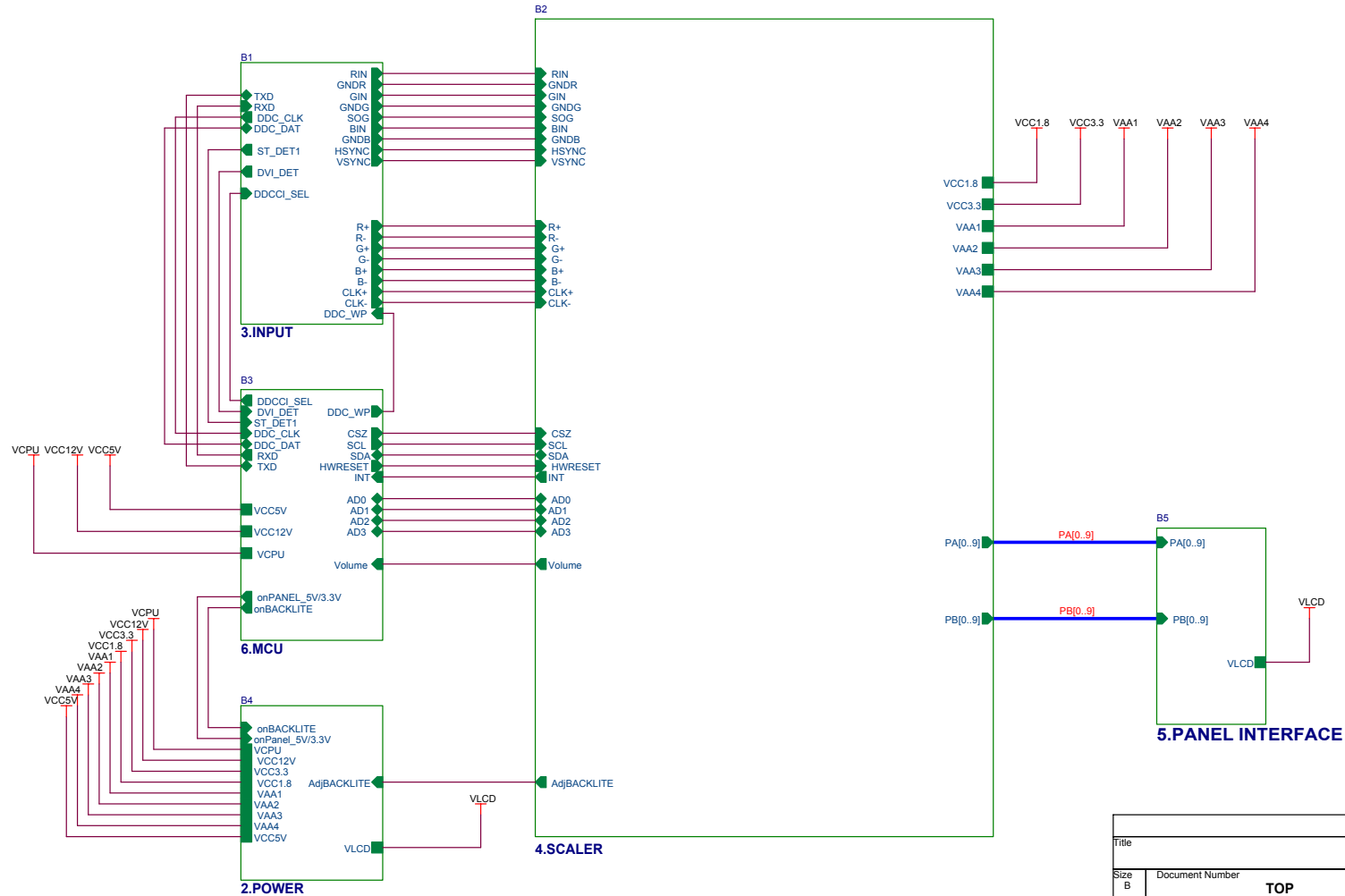
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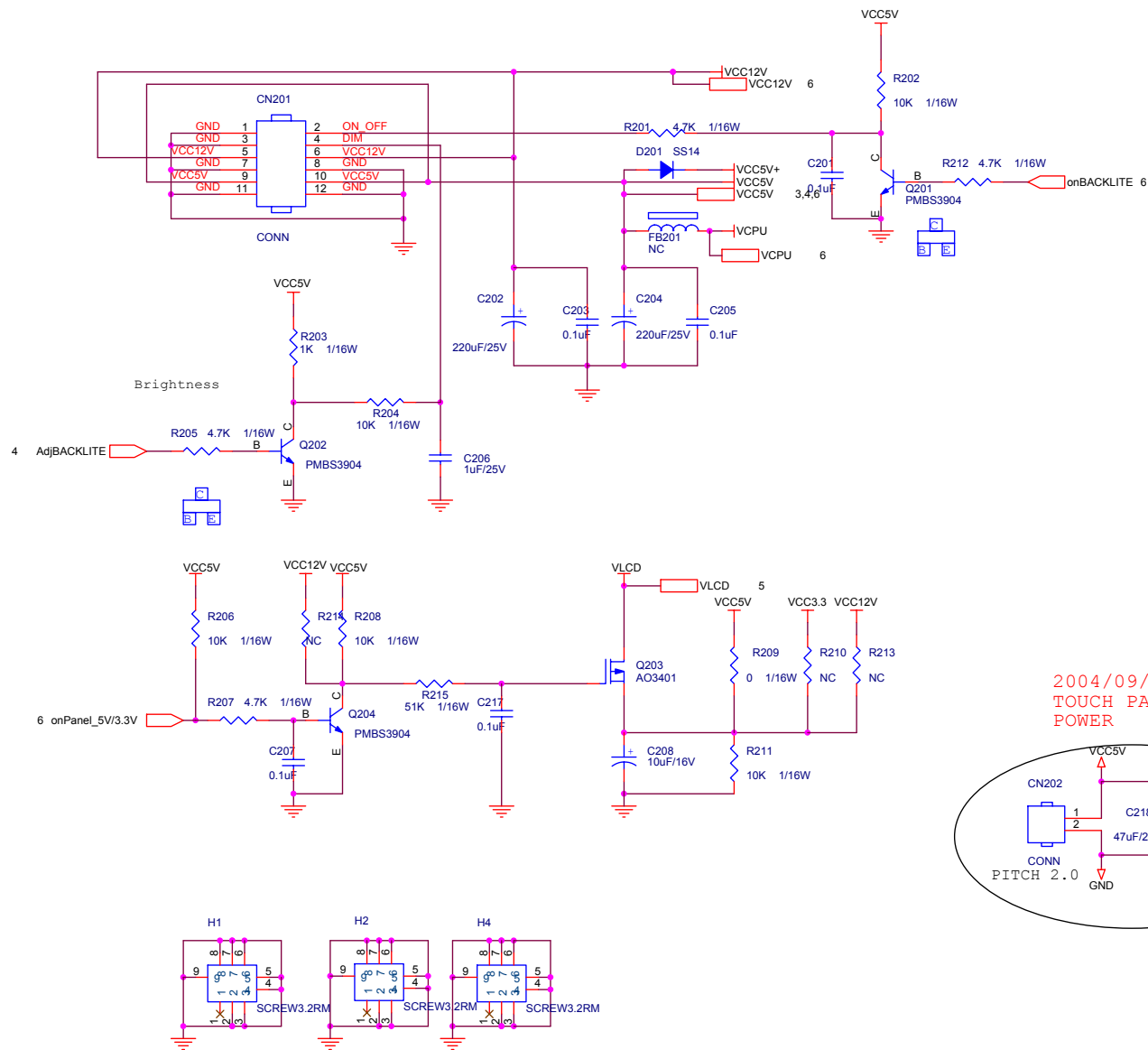
6.Schematic Diagram

6.1 Main Board

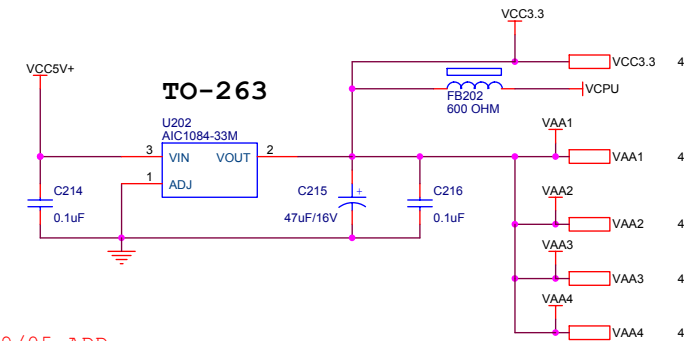
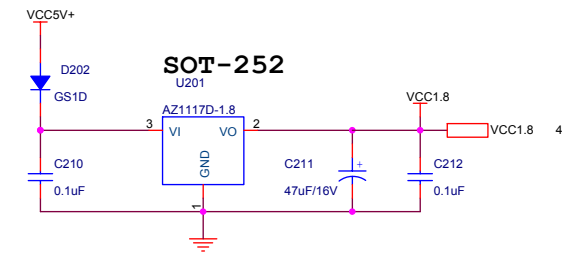
M TSU16AK SCHEMATIC



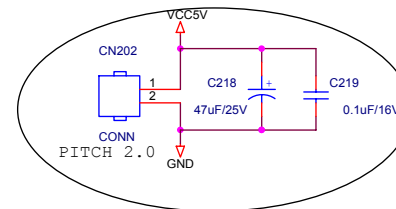
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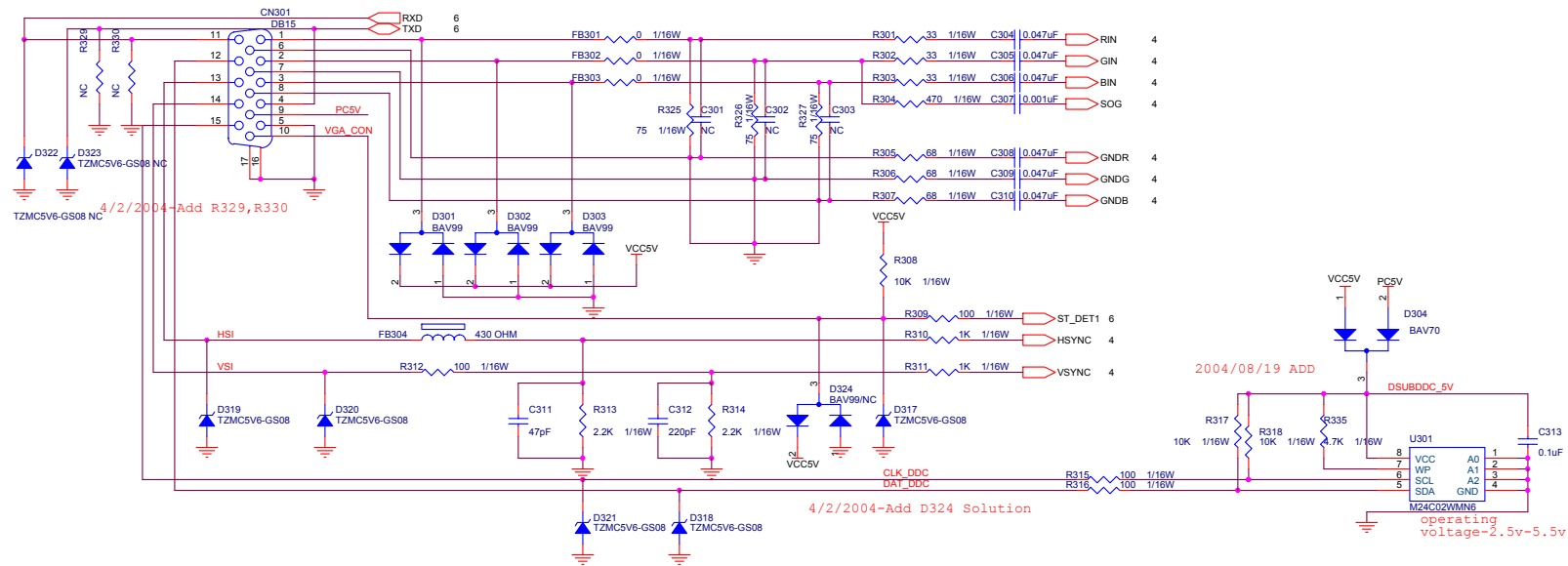
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TOUCH PANEL
POWER

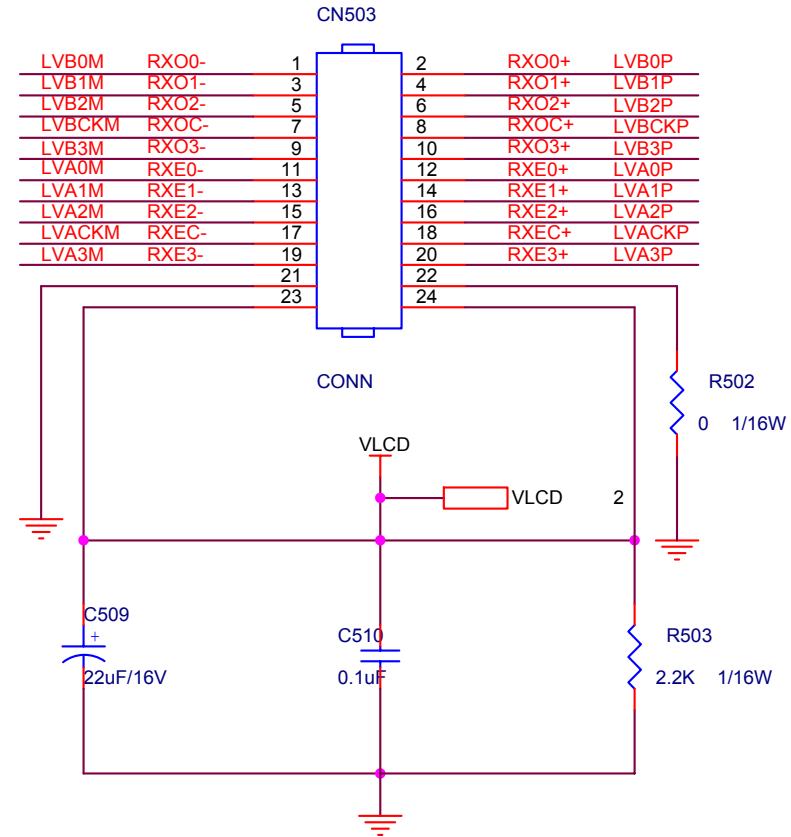
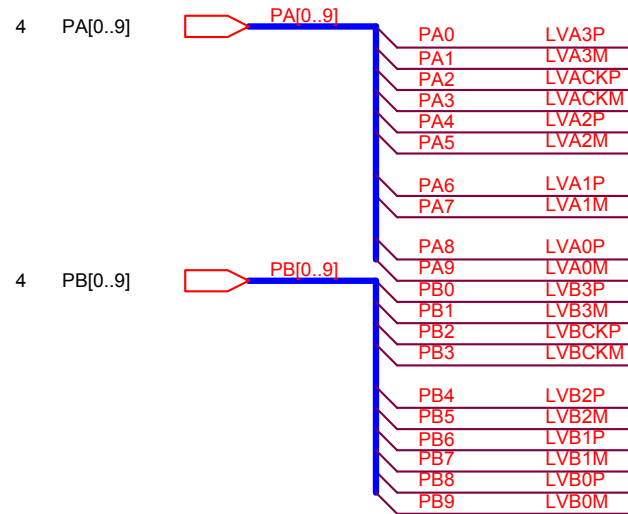


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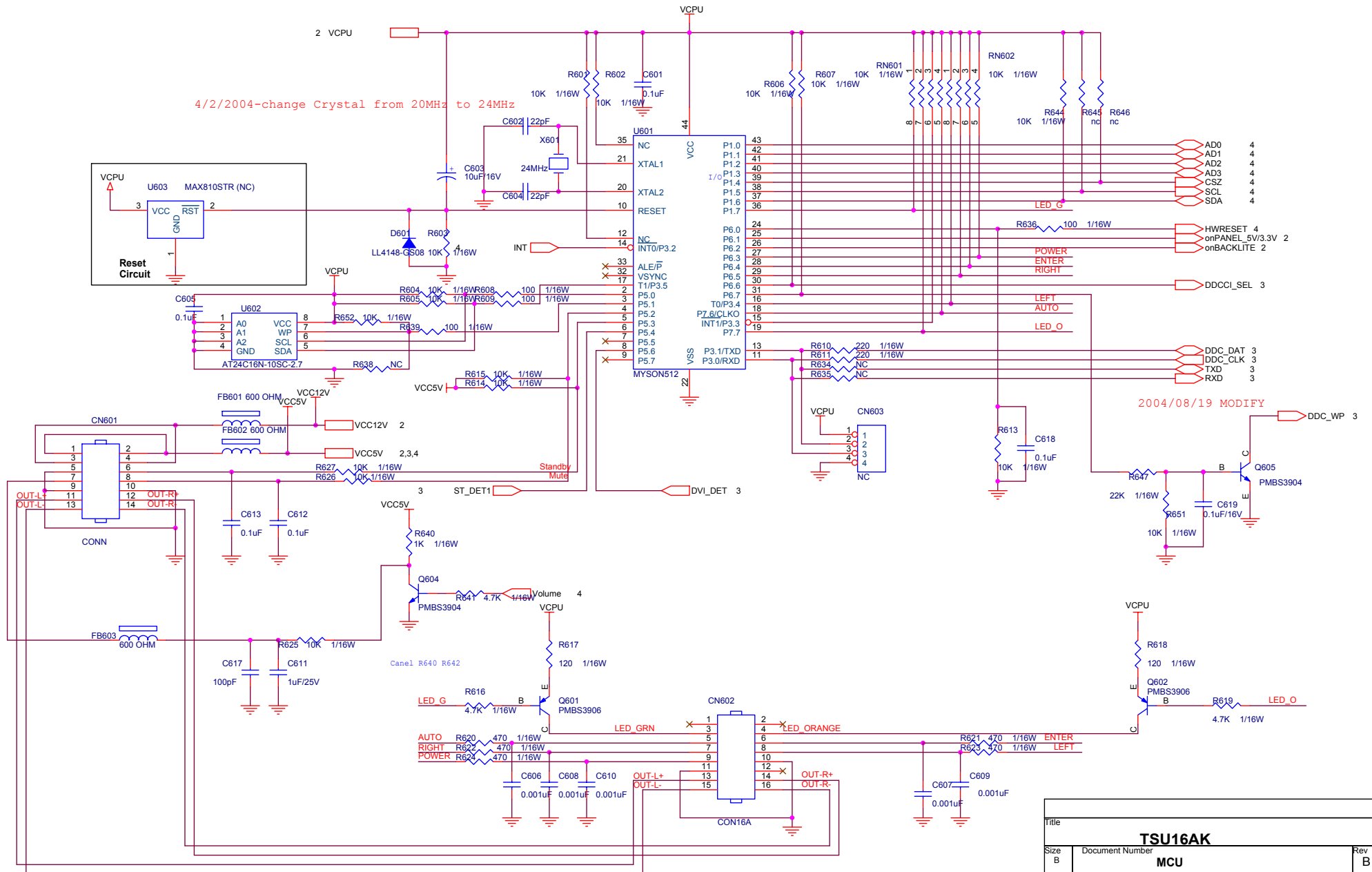
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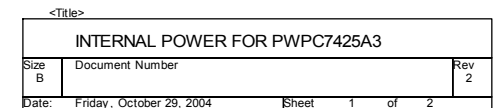
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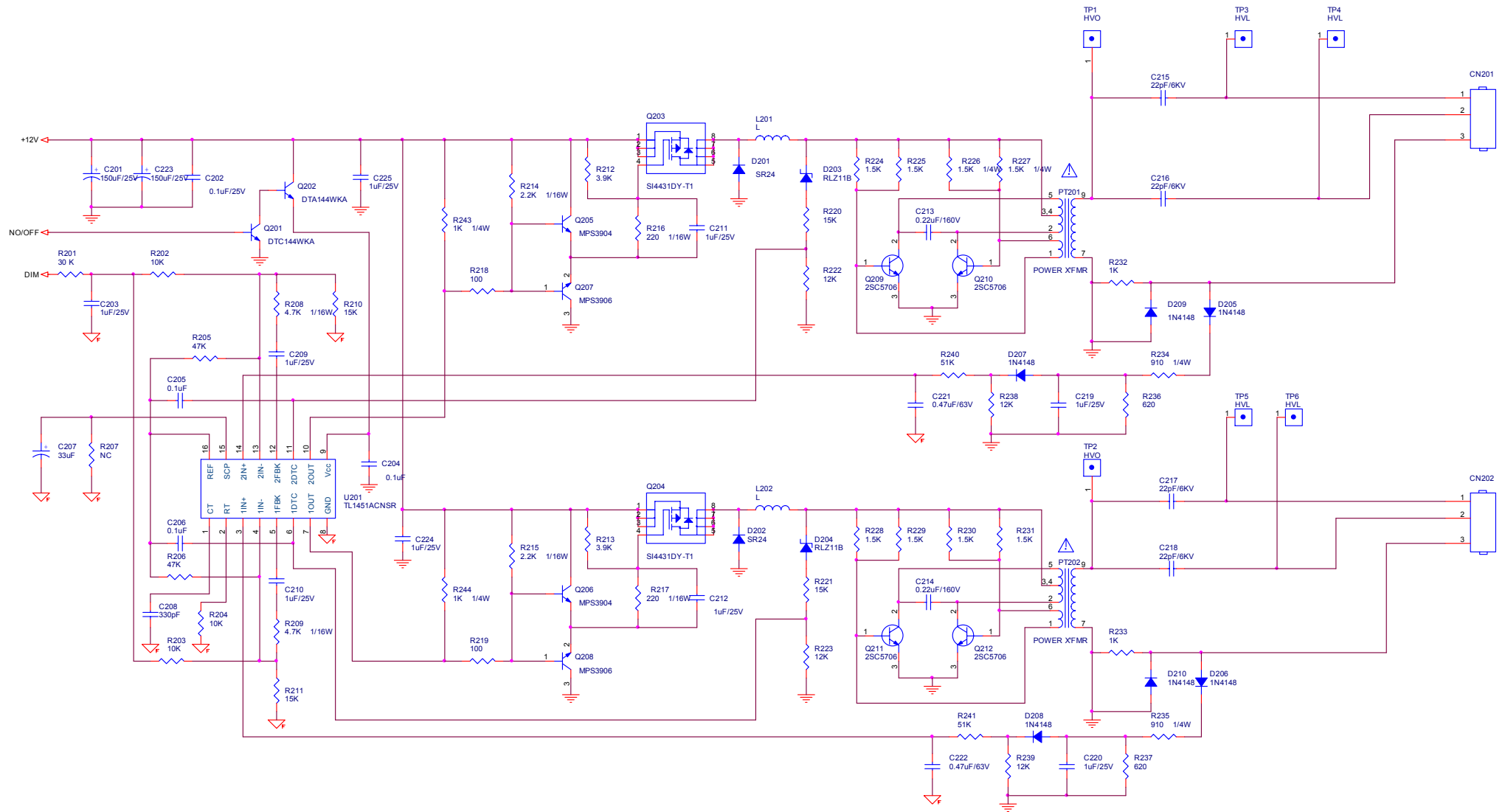
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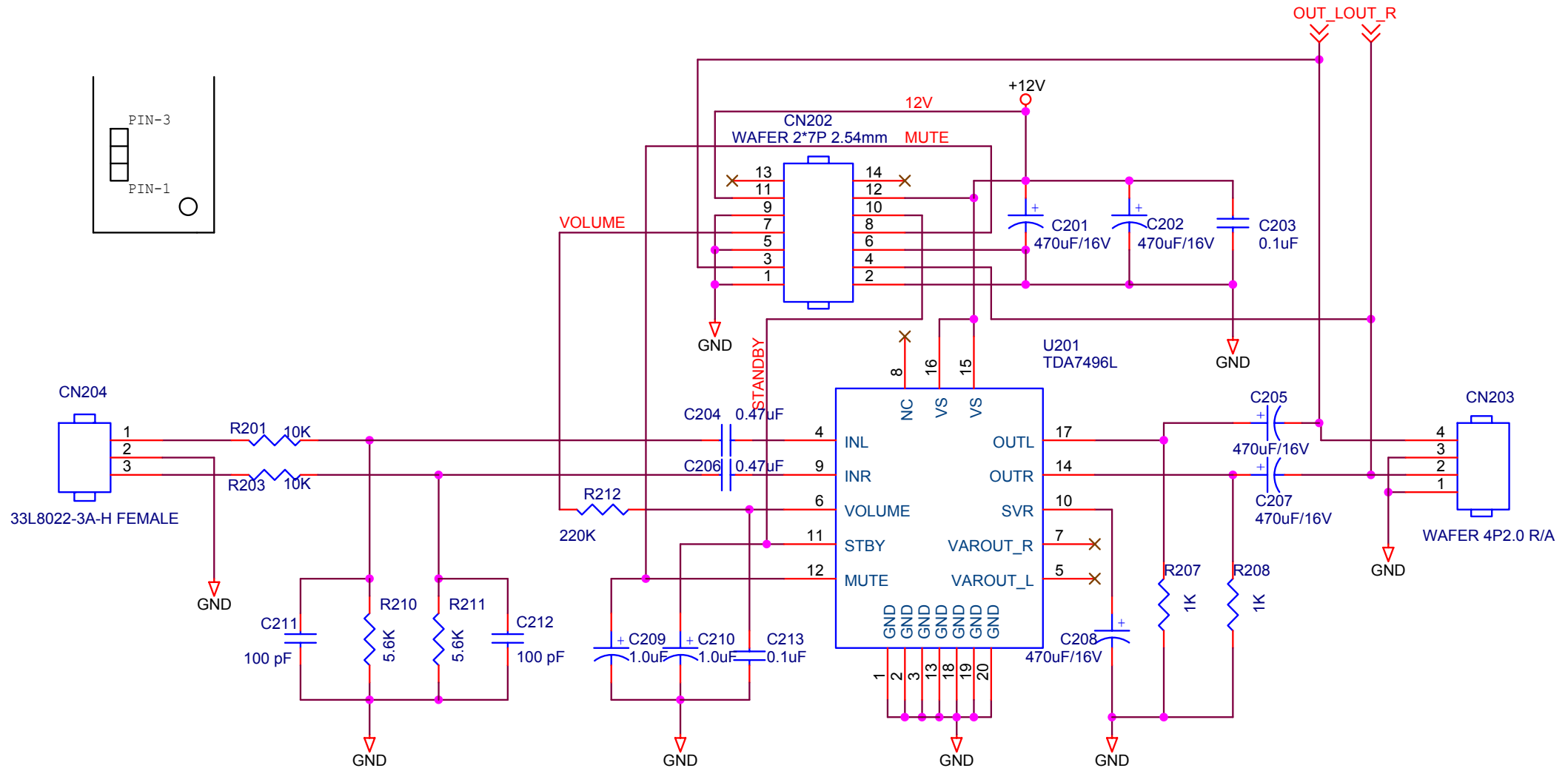


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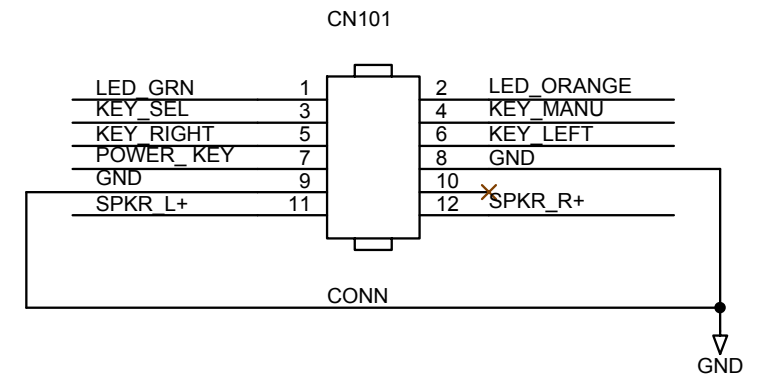
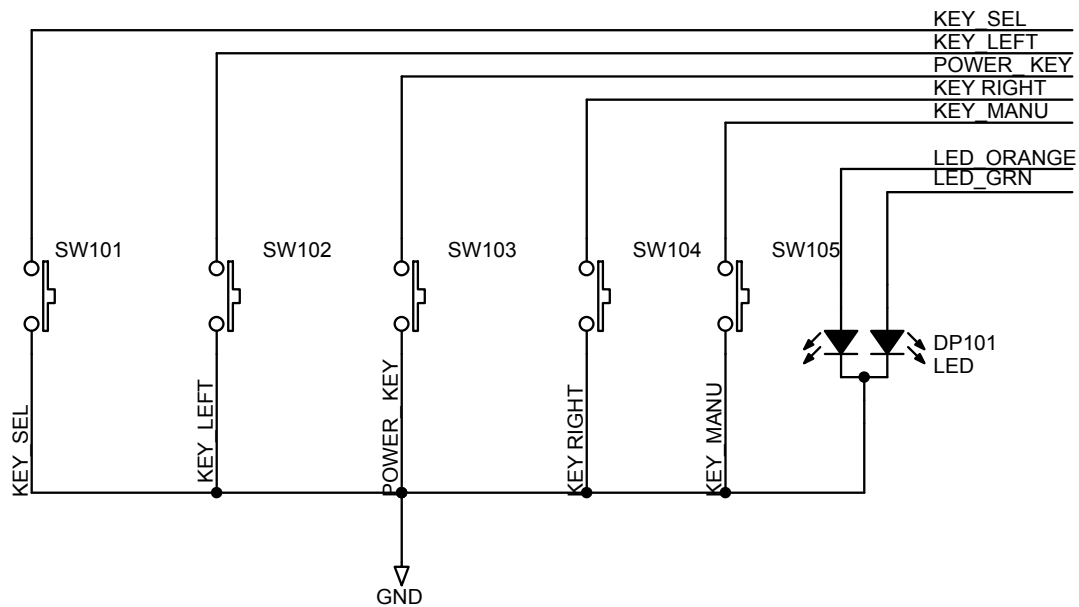
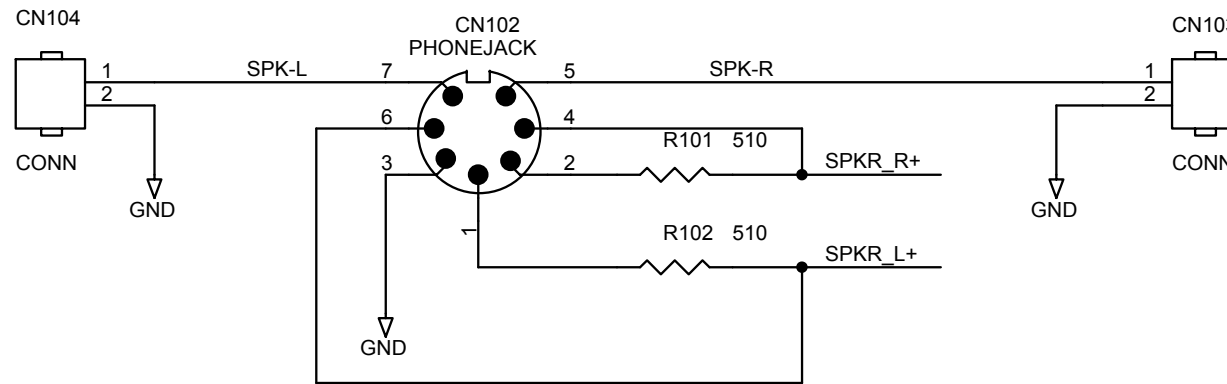
6.3 Audio Board

Buffalo BU1715



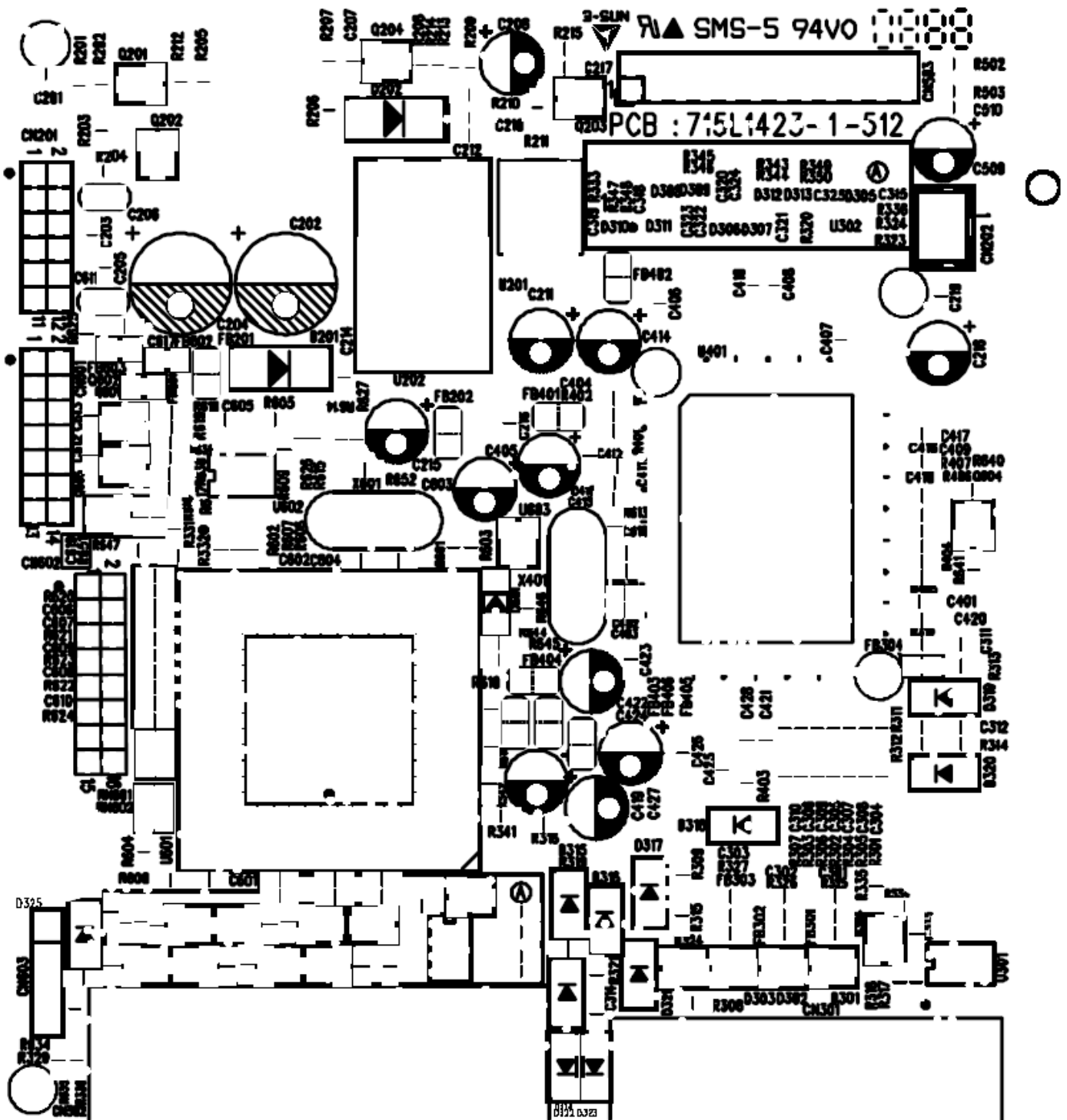
6.4 Key Pad Board

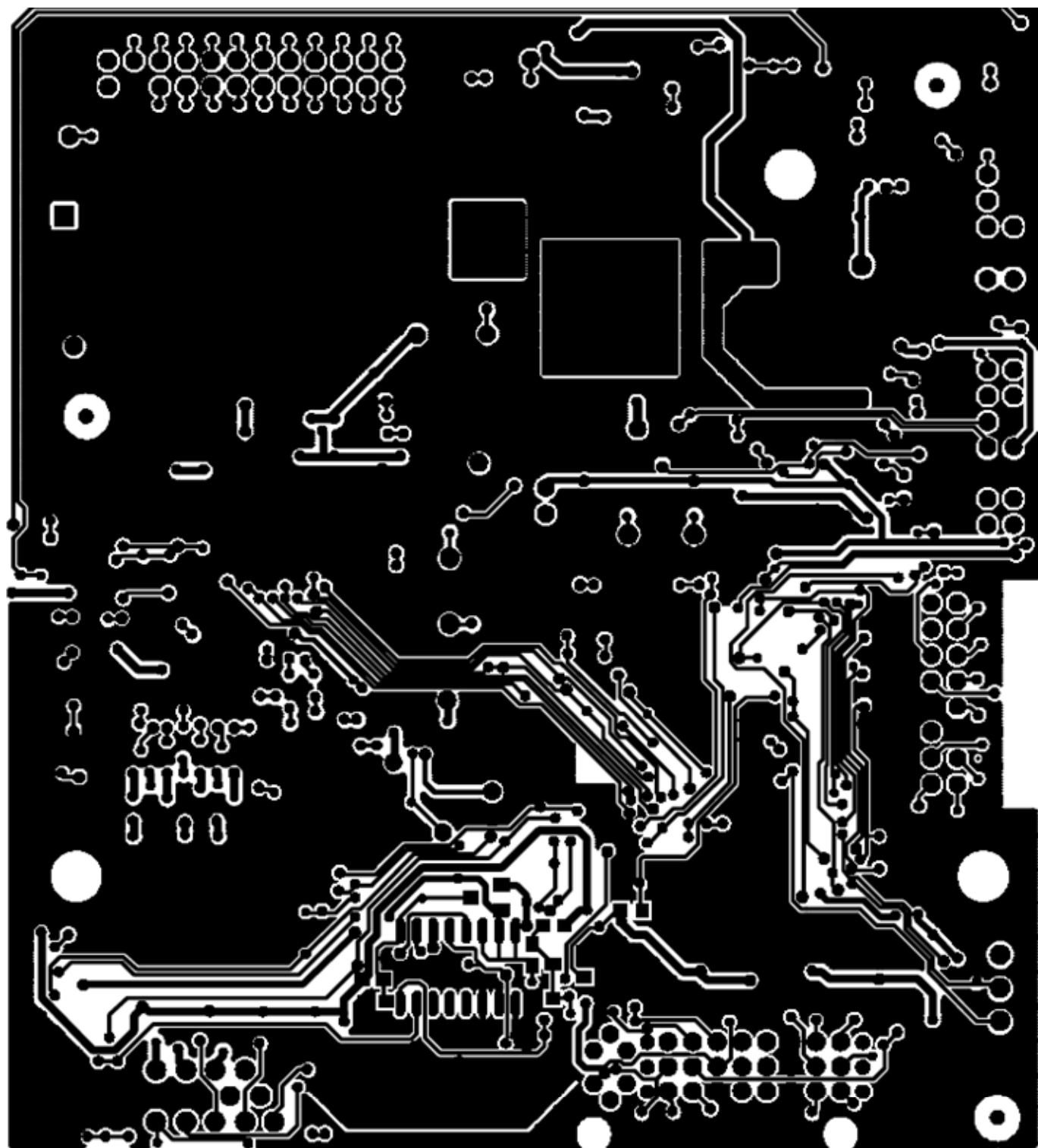
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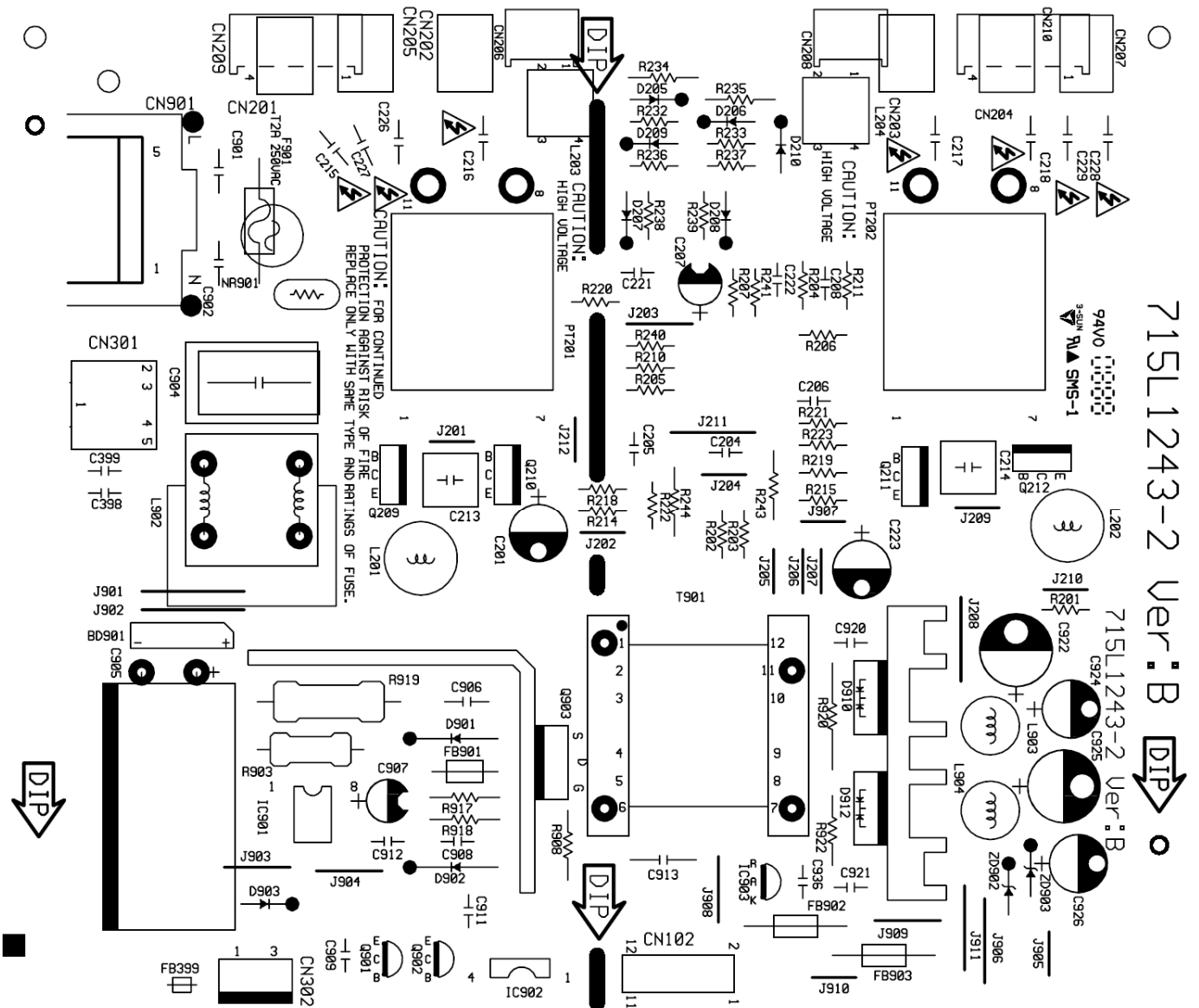
7. PCB Layout

7.1 Main Board

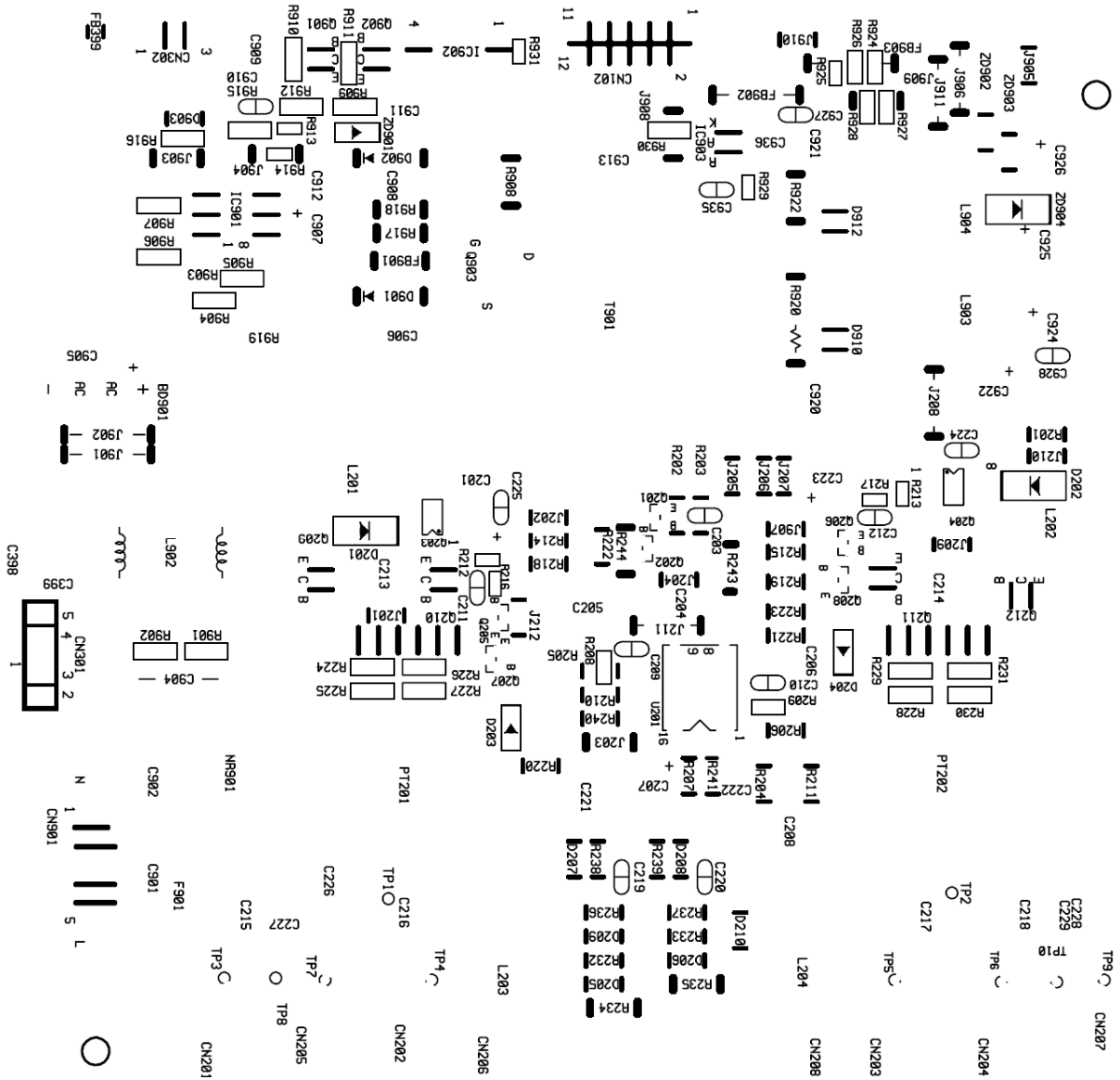


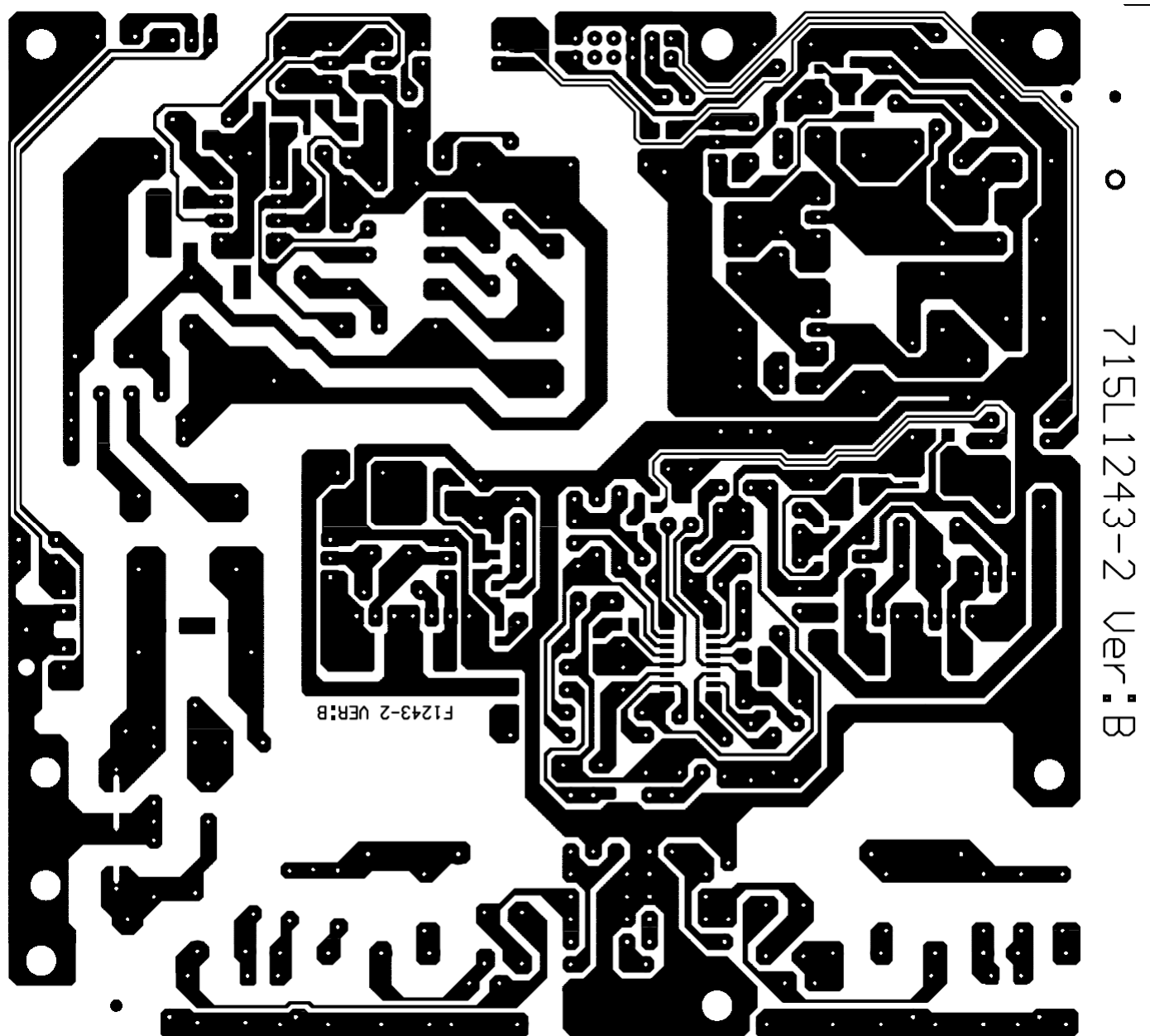


7.2 Power Board

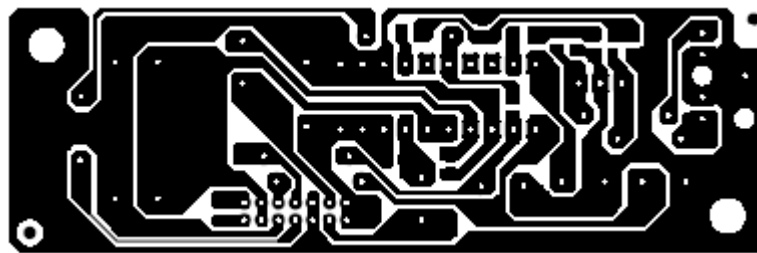
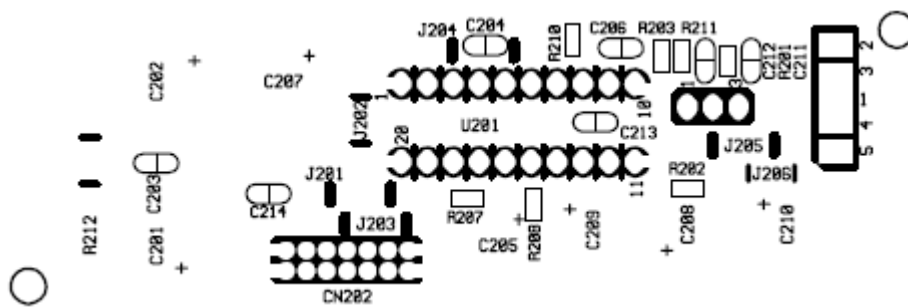
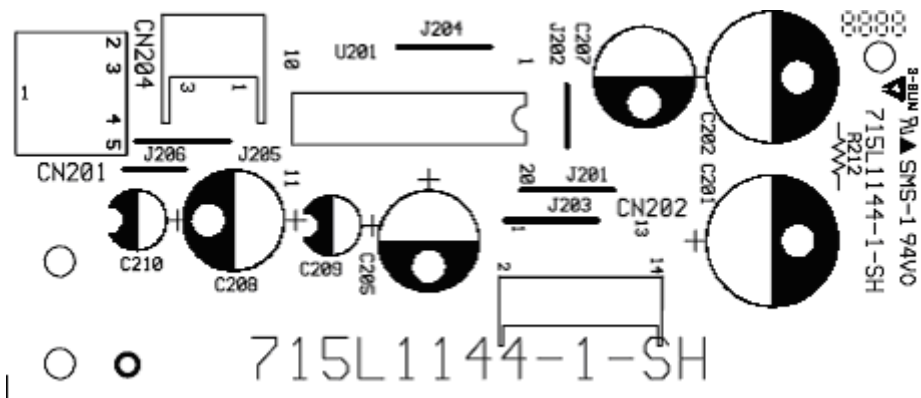


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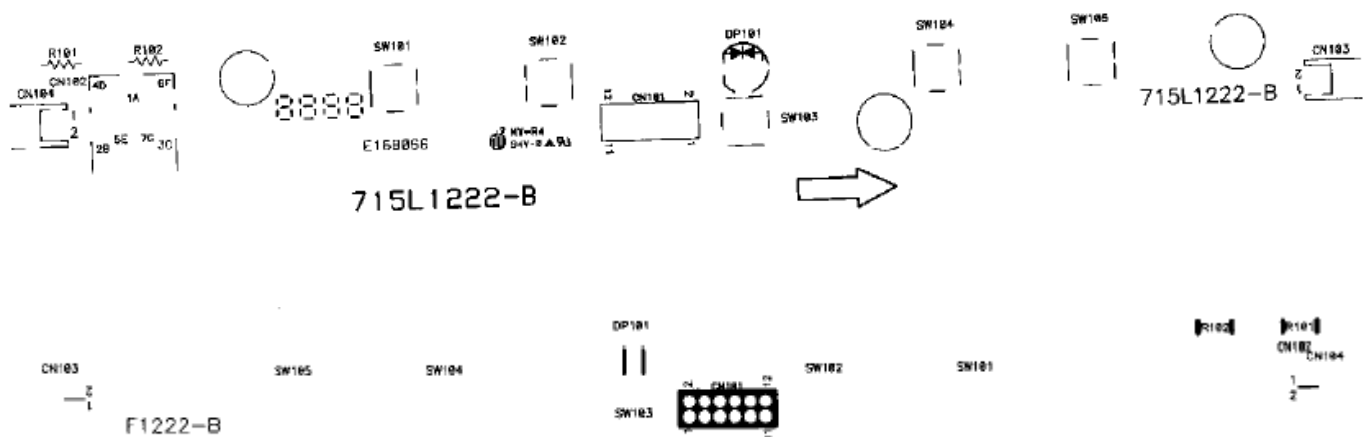




7.3 Audio Board



7.4 KEPC BOARD



8. Maintainability

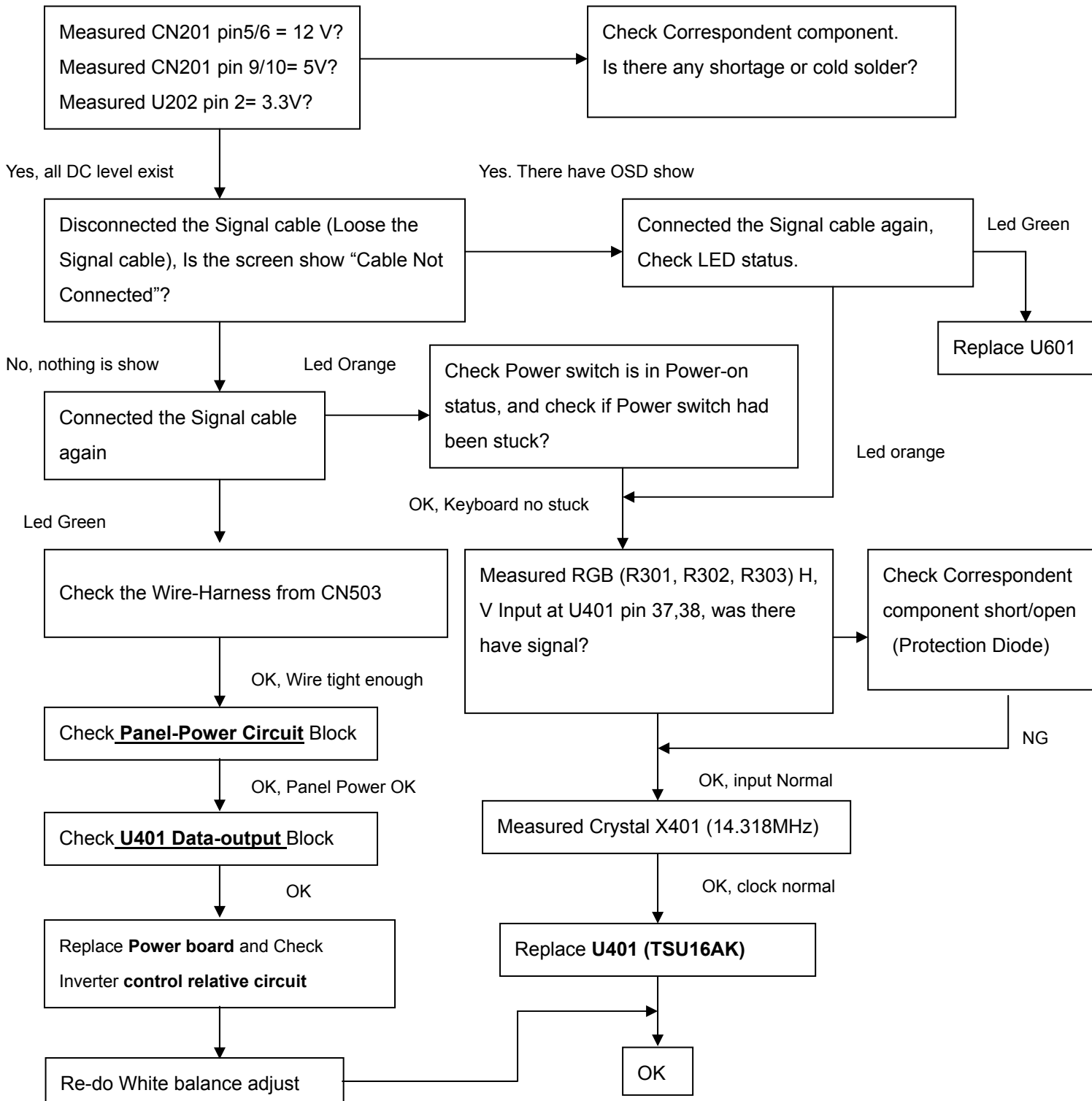
8.1 Tools And Requirement

1. Voltmeter.
2. Oscilloscope.
3. Pattern Generator.
4. LCD Color Analyzer.
5. Service Manual.
6. User Manual.

8.2 Trouble Shooting

8.2.1 Main Board

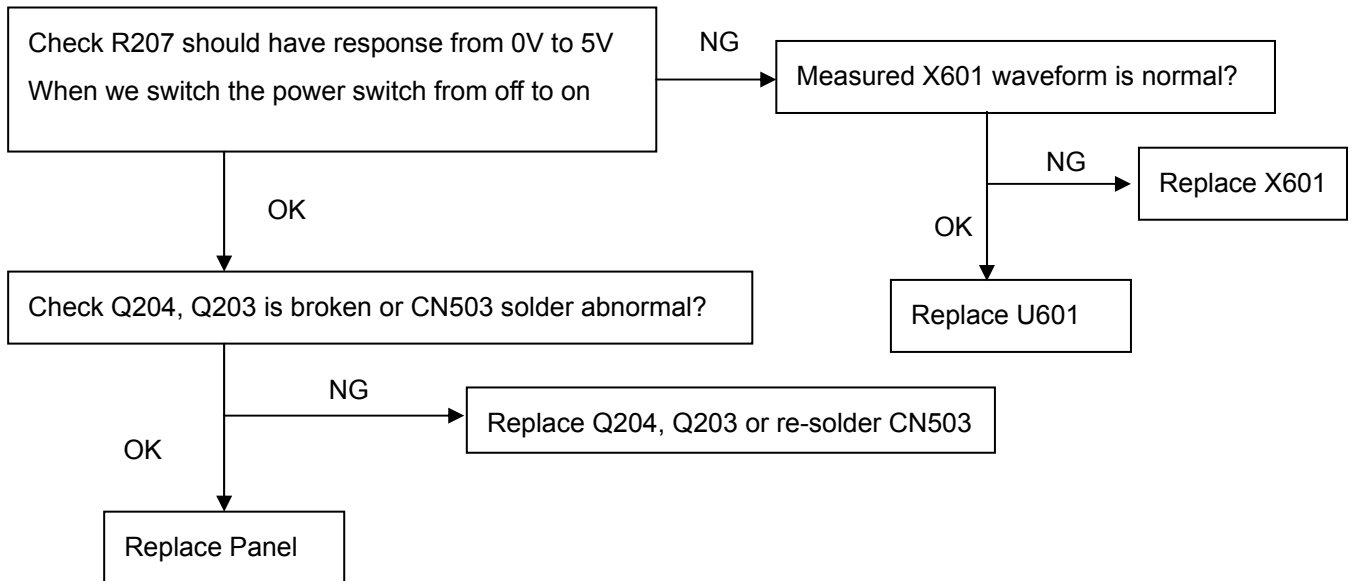
1.No Screen Appear



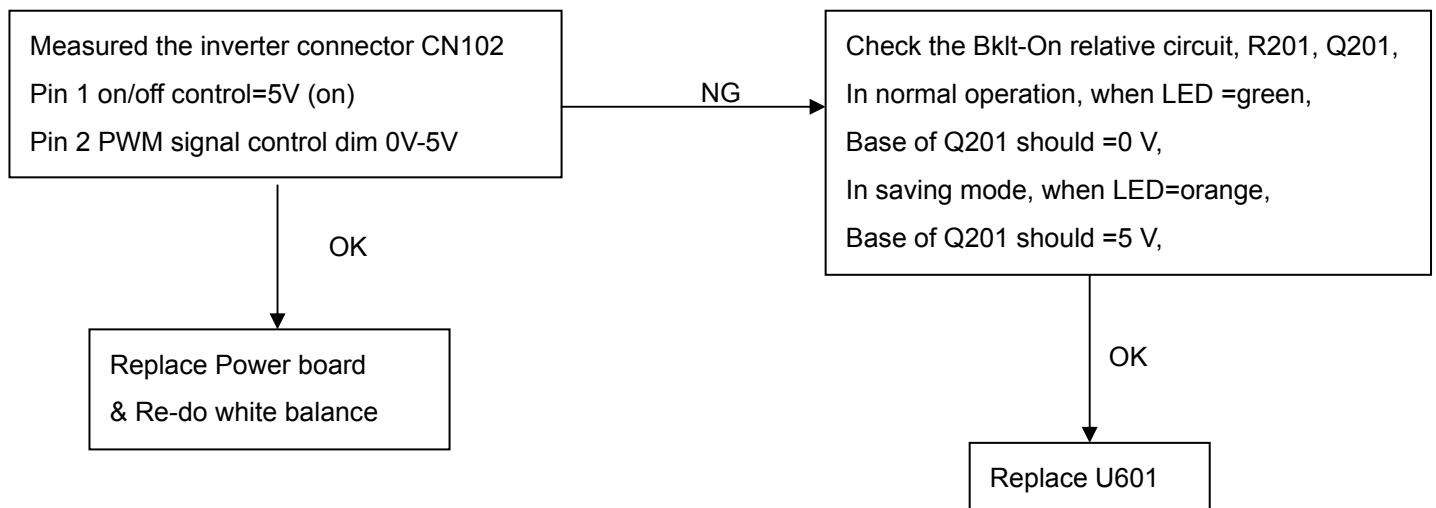
Note: 1. If replace “MAIN-BOARD”, Please re-do “DDC-content” programmed & “White-Balance”.

2. If replace “Power Board” only, Please re-do “ White-Balance”

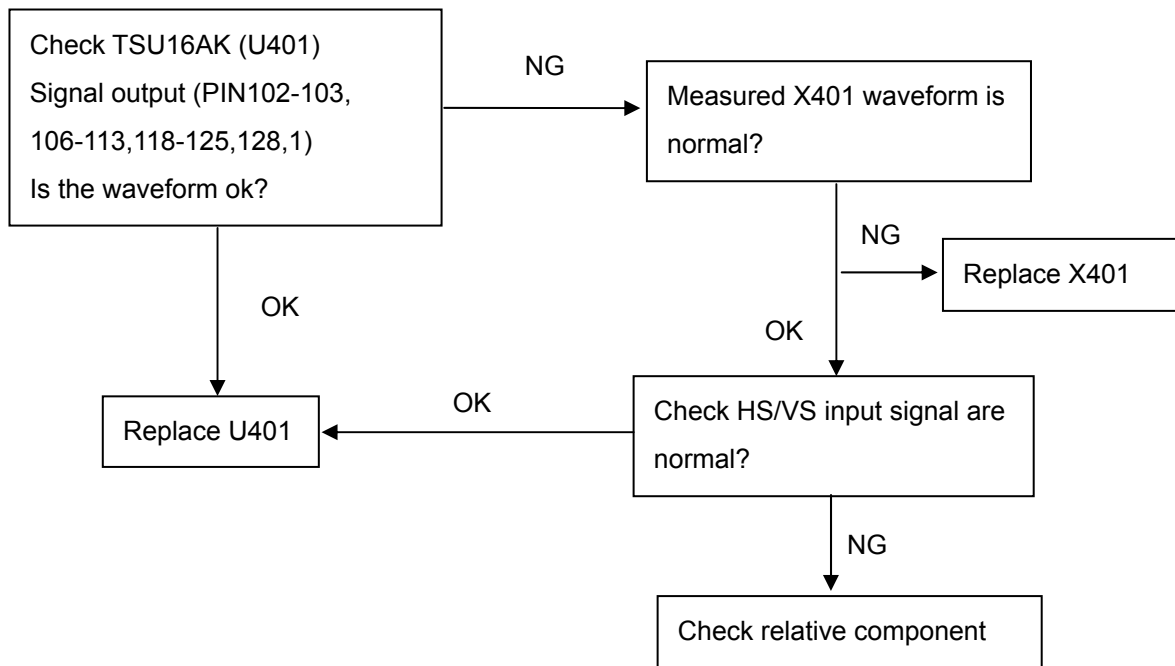
2. Panel Power Circuit



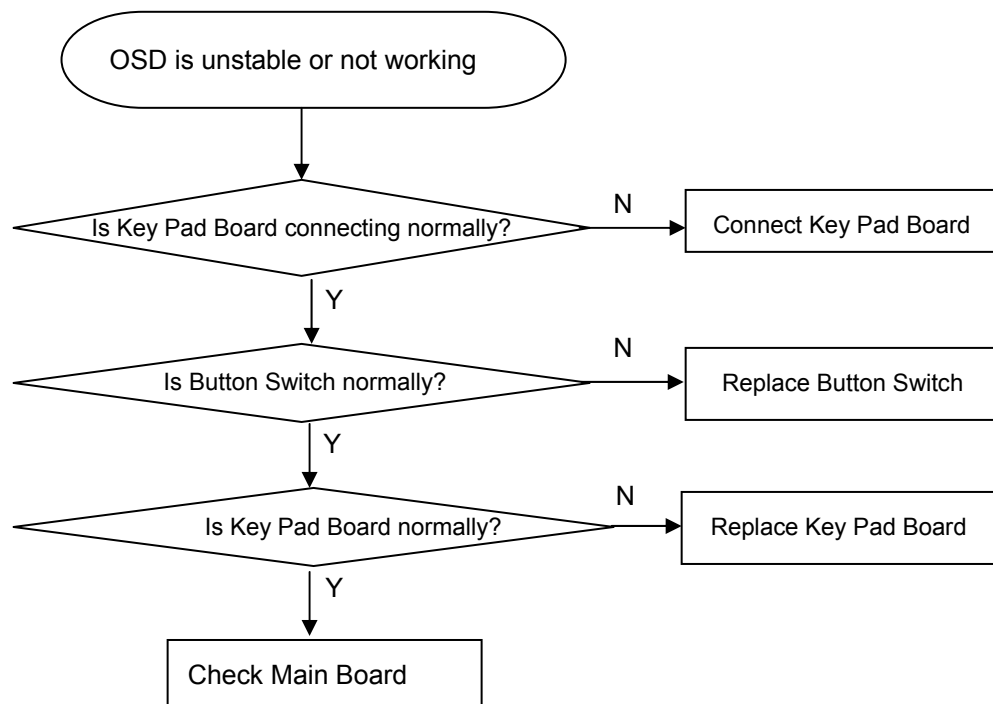
3. Inverter Control Relative Circuit



4. U401-Data Output

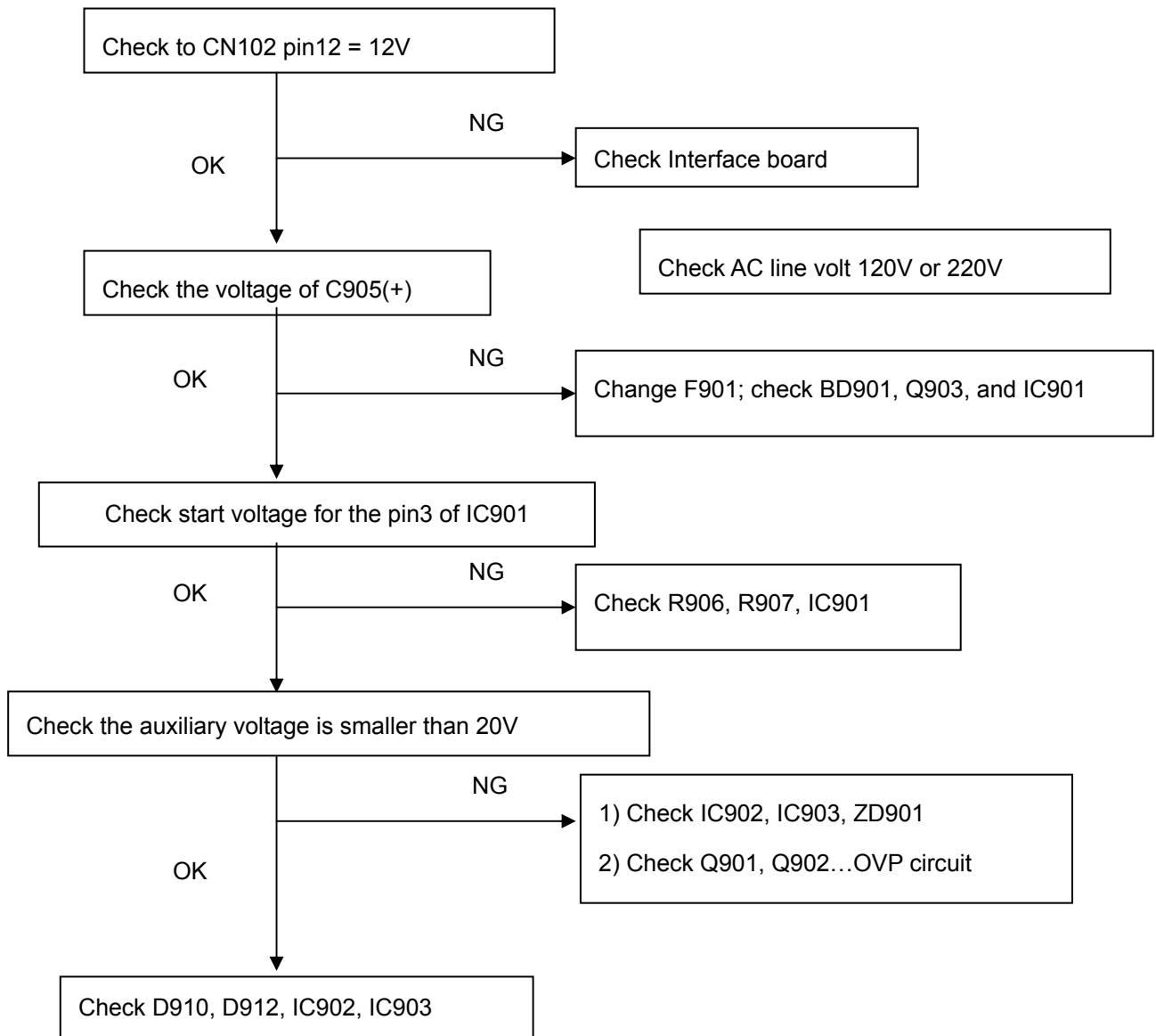


8.2.2 Key Board

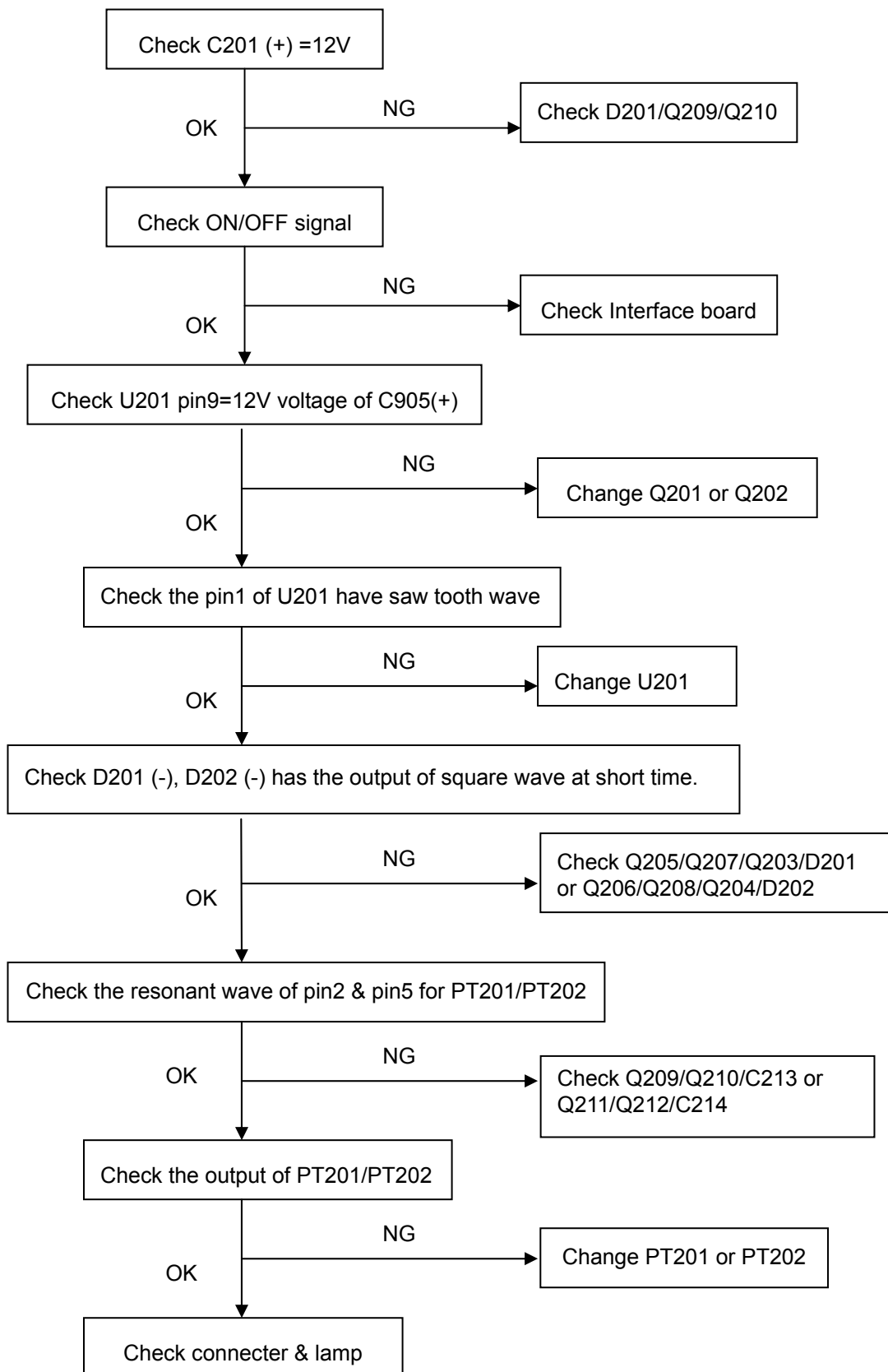


8.2.3 Power/Inverter Board

1.) No power



2.) W / LED, No Backlight



9. White- Balance, Luminance Adjustment

Approximately 2 Hours should be allowed for warm up before proceeding White-Balance adjustment.

Before started adjust white balance, please setting the Chroma-7120 **MEM. Channel 9 to 9300⁰K** colors; **MEM. Channel 10 to 7500⁰K**; **MEM. Channel 11 to 6500⁰K** colors; **MEM. Channel 3 to SRGB**.

9300 parameter is $x = 283, y = 297, Y = 180 \pm 20 \text{ cd/m}^2$,

7500 parameter is $x = 299, y = 315, Y = 180 \pm 20 \text{ cd/m}^2$,

6500 parameter is $x = 313, y = 329, Y = 180 \pm 20 \text{ cd/m}^2$,

SRGB parameter is $x = 313, y = 329, Y = 180 \pm 20 \text{ cd/m}^2$.

And set the timing to the optimal resolution and full white pattern.

How to setting MEM.channel you can reference to chroma 7120 user guide or simple use “**SC**” key and “**NEXT**” key to modify xyY value and use “**ID**” key to modify the TEXT description Following is the procedure to do white-balance adjust.

Press MENU (about 10 second), along with re-plug power cable will activate the factory mode.

Gain adjustment:

Change the mode of Gray 32.

Move cursor to “-Factory Setting-” and press MENU key to enter this sub-menu,

Move cursor to “ Factory” and press MENU key,

Move cursor to “ Auto Level” and press MENU key to adjust Gain and Offset automatically,

And change to the full white pattern.

a. Adjust Color1 (9300⁰K) color-temperature

9. Switch the chroma-7120 to **RGB-mode** (with press “MODE” button)
10. Switch the MEM.channel to Channel 03 (with up or down arrow on chroma 7120)
11. The LCD-indicator on chroma 7120 will show $x = 283, y = 297, Y = 180 \pm 20 \text{ cd/m}^2$
12. In **Color1** sub-menu, adjust **C** to 85, adjust **L** to 100.
13. Adjust the RED on OSD window until chroma 7120 indicator reached the value $R=100$
14. Adjust the GREEN on OSD, until chroma 7120 indicator reached $G=100$
15. Adjust the BLUE on OSD, until chroma 7120 indicator reached $B=100$
16. Repeat above procedure (item 5,6,7) until chroma 7120 RGB value meet the tolerance $=100 \pm 2$

b. Adjust Color2 (7500⁰K) color-temperature

17. Switch the chroma-7120 to **RGB-mode** (with press “MODE” button)
18. Switch the MEM.channel to Channel 03 (with up or down arrow on chroma 7120)
19. The LCD-indicator on chroma 7120 will show $x = 299, y = 315 \pm 28, Y = 180 \pm 20 \text{ cd/m}^2$
20. In **Color2** sub-menu, adjust **C** to 85, adjust **L** to 100,
21. Adjust the RED on OSD window until chroma 7120 indicator reached the value $R=100$
22. Adjust the GREEN on OSD, until chroma 7120 indicator reached $G=100$
23. Adjust the BLUE on OSD, until chroma 7120 indicator reached $B=100$

24. Repeat above procedure (item 5,6,7) until chroma 7120 RGB value meet the tolerance =100±2

c. Adjust sRGB (6500⁰K) color-temperature

1. Switch the chroma-7120 to **RGB-mode** (with press “MODE” button)
 2. Switch the MEM.channel to Channel 01 (with up or down arrow on chroma 7120)
 3. The LCD-indicator on chroma 7120 will show 6500 parameter is $x = 313, y = 329, Y = 180 \pm 20 \text{ cd/m}^2$
 4. In **sRGB** sub-menu, adjust **C** to 85,adjust **L** to 100,
 5. Adjust the RED on OSD window until chroma 7120 indicator reached the value R=100
 6. Adjust the GREEN on OSD, until chroma 7120 indicator reached G=100
 7. Adjust the BLUE on OSD, until chroma 7120 indicator reached B=100
 8. Repeat above procedure (item 5,6,7) until chroma 7120 RGB value meet the tolerance =100±2
- Move cursor to “ Exit/Save” sub-menu and press MENU key to save adjust value and exit.

Turn the POWER-button off to on to quit from factory mode.

10. EDID Content

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
0:	00	FF	FF	FF	FF	FF	FF	00	0A	A6	15	17	01	01	01	01
16:	1E	0E	01	03	08	22	1B	78	EA	FD	59	A5	53	4A	9D	24
32:	14	4F	56	BF	EF	80	61	4C	81	80	71	4F	81	40	81	8A
48:	81	4C	01	01	01	01	30	2A	00	98	51	00	2A	40	30	70
64:	13	00	51	0E	11	00	00	1E	D5	09	80	A0	20	5E	63	10
80:	10	60	52	08	51	0E	11	00	00	1A	00	00	00	FD	00	38
96:	4B	1F	53	0E	00	0A	20	20	20	20	20	20	00	00	00	FC
112:	00	46	54	44	2D	47	37	33	31	41	53	0A	20	20	00	42

Note: Byte 0C, 0D, 0E, 0F means Serial No. Byte 10, 11 means manufacture time. Byte
7F means checksum

11. BOM List

T780KA4NJSMCA

Location	Part NO	Description	Quantity	Unit
	AUPC780ML	AUDIO BOARD	1	PCS
	CBPC780KA4MC	CONVERSION BOARD	1	PCS
	KEPC780KMN	KEY BOARD FOR T780K*NMV	1	PCS
	PWPC7425A3M2	POWER BOARD	1	PCS
	15G5786 1	VRSA BRACKET	1	PCS
	15G5908 2	BRACKET	1	PCS
	15G6090 7	MAIN FRAME	1	PCS
	34G1272 Y 5L	REAR COVER	1	PCS
	34G1455 Y L	BASE	1	PCS
	40G 190894 1	ID LABEL	1	PCS
	40G 58162435A	LABEL	1	PCS
	40G 581689 4A	SERIAL LABEL FOR MONITO	1	PCS
	41G7800894 3A	INSTALL MANUAL	1	PCS
	44G3739624 1A	CARTON	1	PCS
	44G3750 1	EPS	1	PCS
	44G3750 2	EPS	1	PCS
	45G 76 28 V3	PE BAG FOR MANUAL	1	PCS
	45G 88607	PE BAG FOR MONITOR	1	PCS
	50G 600 2	HANDLE1	1	PCS
	50G 600 3	HANDLE2	1	PCS
	52G 1185	MIDDLE TAPE FOR CARTON	60	CM
	52G 1186	SMALL TAPE	8	CM
	52G6025 11784	MYLAR	1	PCS
	70G2000500BUF	CD-ROM	1	PCS
	85G6080 2	SHIELD	1	PCS
	89G 173 56 11	AUDIO CABLE	1	PCS
	89G1738GAB D1	SIGNAL CABLE	1	PCS
	89G401C18NISM	POWER CORD	1	PCS
	95G8014 16509	WIRE HARNESS	1	PCS
	95G8018 30536	WIRE HARNESS	1	PCS
	M1G 330 4128	SCREW M3X4	6	PCS
	M1G 330 5120	SCREW	2	PCS
	M1G1130 6128	SCREW	7	PCS
	M1G1140 6128	SCREW 4X6	1	PCS
	M1G1730 6128	SCREW M3x6	3	PCS

	Q1G 330 8120	SCREW 3X8mm	2	PCS
	Q1G 330 10120	SCREW FOR FP/RC	1	PCS
	Q1G 330 12120	SCREW 3X12mm	2	PCS
	705L780KB34 65	BEZEL ASS'Y	1	PCS
	750GLU70G01 1	AU 17" V5 (V1) PANEL	1	PCS
	AM1G1740 10120	SCREW (M4*8)	4	PCS
	AUPC780MCSMT	AUDIO BOARD FOR SMT	1	PCS
	12G6051 1	RUBBER FOOT	1	PCS
CN202	33G802414C H	2*7PIN DUAL ROW RIGHT A	1	PCS
U201	56G 616 1	TDA7496	1	PCS
CN204	95G8014 3503	WIRE HARNESS	1	PCS
	AUPC780MCAI	AUDIO BOARD FOR AI	1	PCS
R207	61L0603102	RST SM 0603 RC0603 1K P	1	PCS
R208	61L0603102	RST SM 0603 RC0603 1K P	1	PCS
R201	61L0603183	CHIP 18K OHM 1/10W	1	PCS
R203	61L0603183	CHIP 18K OHM 1/10W	1	PCS
R210	61L0603203	CHIPR 20K OHM+-5% 1/10W	1	PCS
R211	61L0603203	CHIPR 20K OHM+-5% 1/10W	1	PCS
C211	65G0805101 31	CHIP 100PF 50V NPD 0805	1	PCS
C212	65G0805101 31	CHIP 100PF 50V NPD 0805	1	PCS
C203	65G0805104 32	CHIP 0.1U 50V X7R	1	PCS
C213	65G0805104 32	CHIP 0.1U 50V X7R	1	PCS
C204	65G0805474 22	CHIP 0.47UF 25V X7R 080	1	PCS
C206	65G0805474 22	CHIP 0.47UF 25V X7R 080	1	PCS
	715L1144 1 IO	AUDIO BOARD	1	PCS
R212	61G 60220152T	CFR 200 OHM +-5% 1/6W	1	PCS
C209	67G 2151007NT	KY50VB10M-TP5 5*11.5	1	PCS
C210	67G 2151007NT	KY50VB10M-TP5 5*11.5	1	PCS
C201	67G 2154713NT GP	KY16VB470M-TP5 8*15MM	1	PCS
C202	67G 2154713NT GP	KY16VB470M-TP5 8*15MM	1	PCS
C205	67G 2154713NT GP	KY16VB470M-TP5 8*15MM	1	PCS
C207	67G 2154713NT GP	KY16VB470M-TP5 8*15MM	1	PCS
C208	67G 2154713NT GP	KY16VB470M-TP5 8*15MM	1	PCS
	AIC780KA4MC	MAIN BOARD	1	PCS
CN601	33G801714A H	PIN HEADER 2*7 R/A	1	PCS
CN201	33G8027 12	WAFER 2*6P 2.0MM R/A	1	PCS
CN602	33G8027 16	WAFER 16PIN 2.0mm DIP	1	PCS
CN503	33G802724B H	WAFER	1	PCS
	40G 45762412B	CBPC LABEL	1	PCS

C202	67G215V221 4N	KY25VB220-M-CC3 8*11.5M	1	PCS
C204	67G215V221 4N	KY25VB220-M-CC3 8*11.5M	1	PCS
C211	67G215V470 4N	KY25VB47-M-CC3.0 5*11MM	1	PCS
C215	67G215V470 4N	KY25VB47-M-CC3.0 5*11MM	1	PCS
C208	67G215Y100 7N	KY50VB10M-L 5*11	1	PCS
C405	67G215Y100 7N	KY50VB10M-L 5*11	1	PCS
C414	67G215Y100 7N	KY50VB10M-L 5*11	1	PCS
C419	67G215Y100 7N	KY50VB10M-L 5*11	1	PCS
C422	67G215Y100 7N	KY50VB10M-L 5*11	1	PCS
C424	67G215Y100 7N	KY50VB10M-L 5*11	1	PCS
C427	67G215Y100 7N	KY50VB10M-L 5*11	1	PCS
C603	67G215Y100 7N	KY50VB10M-L 5*11	1	PCS
C509	67G215Y2207NV	KY50VB22M-CC3 5*11	1	PCS
CN301	88G 35315F H	D-SUB 15PIN	1	PCS
X601	93G 22 45 H	24MHZ/30PF/49US	1	PCS
X401	93G 22 53	CRYSTAL 14.318MHzHC-49U	1	PCS
	40G 457624 1B	LABEL-CPU	1	PCS
U401	56G 562 86	TSU16AK PQFP-128 BY MST	1	PCS
U202	56G 563 7	AIC1084-33PM	1	PCS
U201	56G 563 31	AI1117D-1.8-EI	1	PCS
U301	56G1133 34	M24C02-WMN6TP	1	PCS
U602	56G1133 56	M24C16-WMN6TP	1	PCS
U601	56L1125543AWT	MTV512MV 44PIN-PLCC	1	PCS
Q201	57G 417 4	PMBS3904/PHILIPS-SMT (04	1	PCS
Q202	57G 417 4	PMBS3904/PHILIPS-SMT (04	1	PCS
Q204	57G 417 4	PMBS3904/PHILIPS-SMT (04	1	PCS
Q604	57G 417 4	PMBS3904/PHILIPS-SMT (04	1	PCS
Q605	57G 417 4	PMBS3904/PHILIPS-SMT (04	1	PCS
Q601	57G 417 6	PMBS3906/PHILIPS-SMT (06	1	PCS
Q602	57G 417 6	PMBS3906/PHILIPS-SMT (06	1	PCS
Q203	57G 763 1	A03401 SOT23 BY AOS (A1)	1	PCS
RN601	61L 125103 8	CHIP AR 8P4R 10KOHM +-5	1	PCS
RN602	61L 125103 8	CHIP AR 8P4R 10KOHM +-5	1	PCS
FB301	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS
FB302	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS
FB303	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS
R209	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS
R340	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS
R502	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS

R305	61L0603101	RST SM 0603 RC0603 100R	1	PCS
R306	61L0603101	RST SM 0603 RC0603 100R	1	PCS
R307	61L0603101	RST SM 0603 RC0603 100R	1	PCS
R309	61L0603101	RST SM 0603 RC0603 100R	1	PCS
R312	61L0603101	RST SM 0603 RC0603 100R	1	PCS
R315	61L0603101	RST SM 0603 RC0603 100R	1	PCS
R316	61L0603101	RST SM 0603 RC0603 100R	1	PCS
R341	61L0603101	RST SM 0603 RC0603 100R	1	PCS
R342	61L0603101	RST SM 0603 RC0603 100R	1	PCS
R402	61L0603101	RST SM 0603 RC0603 100R	1	PCS
R608	61L0603101	RST SM 0603 RC0603 100R	1	PCS
R609	61L0603101	RST SM 0603 RC0603 100R	1	PCS
R636	61L0603101	RST SM 0603 RC0603 100R	1	PCS
R639	61L0603101	RST SM 0603 RC0603 100R	1	PCS
R203	61L0603102	RST SM 0603 RC0603 1K P	1	PCS
R310	61L0603102	RST SM 0603 RC0603 1K P	1	PCS
R311	61L0603102	RST SM 0603 RC0603 1K P	1	PCS
R624	61L0603102	RST SM 0603 RC0603 1K P	1	PCS
R640	61L0603102	RST SM 0603 RC0603 1K P	1	PCS
R202	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R204	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R208	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R211	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R308	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R317	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R318	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R335	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R336	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R404	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R405	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R406	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R407	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R601	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R602	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R603	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R604	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R605	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R607	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R613	61L0603103	RST SM 0603 RC0603 10K	1	PCS

R614	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R615	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R625	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R626	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R627	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R644	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R645	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R646	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R652	61L0603103	RST SM 0603 RC0603 10K	1	PCS
R617	61L0603121	CHIPR 120 OHM 1/10W	1	PCS
R618	61L0603121	CHIPR 120 OHM 1/10W	1	PCS
R201	61L0603203	CHIPR 20K OHM+-5% 1/10W	1	PCS
R610	61L0603221	RST SM 0603 RC0603 220R	1	PCS
R611	61L0603221	RST SM 0603 RC0603 220R	1	PCS
R313	61L0603222	RST SM 0603 RC0603 2K2	1	PCS
R314	61L0603222	RST SM 0603 RC0603 2K2	1	PCS
R503	61L0603222	RST SM 0603 RC0603 2K2	1	PCS
R647	61L0603223	CHIPR 22K OHM +-5% 1/10	1	PCS
R301	61L0603330	CHIPR 33 OHM +-5% 1/10W	1	PCS
R302	61L0603330	CHIPR 33 OHM +-5% 1/10W	1	PCS
R303	61L0603330	CHIPR 33 OHM +-5% 1/10W	1	PCS
R403	61L0603390 0F	CHIP 390 OHM 1/10W 1%	1	PCS
R304	61L0603471	CHIPR 470 OHM+-5% 1/10W	1	PCS
R620	61L0603471	CHIPR 470 OHM+-5% 1/10W	1	PCS
R621	61L0603471	CHIPR 470 OHM+-5% 1/10W	1	PCS
R622	61L0603471	CHIPR 470 OHM+-5% 1/10W	1	PCS
R623	61L0603471	CHIPR 470 OHM+-5% 1/10W	1	PCS
R205	61L0603472	RST SM 0603 RC0603 4K7	1	PCS
R207	61L0603472	RST SM 0603 RC0603 4K7	1	PCS
R212	61L0603472	RST SM 0603 RC0603 4K7	1	PCS
R337	61L0603472	RST SM 0603 RC0603 4K7	1	PCS
R338	61L0603472	RST SM 0603 RC0603 4K7	1	PCS
R339	61L0603472	RST SM 0603 RC0603 4K7	1	PCS
R616	61L0603472	RST SM 0603 RC0603 4K7	1	PCS
R619	61L0603472	RST SM 0603 RC0603 4K7	1	PCS
R641	61L0603472	RST SM 0603 RC0603 4K7	1	PCS
R215	61L0603513	CHIP 51K OHM 1/10W	1	PCS
R325	61L0603750	RST SM 0603 RC22H 75R P	1	PCS
R326	61L0603750	RST SM 0603 RC22H 75R P	1	PCS

R327	61L0603750	RST SM 0603 RC22H 75R P	1	PCS
R651	61L0603912	CHIPR 9.1KOHM +-5% 1/10	1	PCS
C617	65G0603101 32	100PF +-10% 50V X7R	1	PCS
C307	65G0603102 32	1000PF +-10% 50V X7R	1	PCS
C606	65G0603102 32	1000PF +-10% 50V X7R	1	PCS
C607	65G0603102 32	1000PF +-10% 50V X7R	1	PCS
C608	65G0603102 32	1000PF +-10% 50V X7R	1	PCS
C609	65G0603102 32	1000PF +-10% 50V X7R	1	PCS
C610	65G0603102 32	1000PF +-10% 50V X7R	1	PCS
C201	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C203	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C205	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C207	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C210	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C212	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C214	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C216	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C217	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C313	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C401	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C404	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C406	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C407	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C408	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C409	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C410	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C411	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C412	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C413	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C415	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C416	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C417	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C418	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C420	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C421	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C423	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C425	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C426	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C428	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS

C510	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C601	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C612	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C613	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C618	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C619	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C403	65G0603220 31	CER1 0603 NP0 50V 22P P	1	PCS
C602	65G0603220 31	CER1 0603 NP0 50V 22P P	1	PCS
C312	65G0603221 31	CER1 0603 NP0 50V 220P	1	PCS
C605	65G0603224 17	CAP: CER 0.22UF-20%-80%	1	PCS
C604	65G0603270 31	27PF 50V NPO	1	PCS
C311	65G0603330 31	CER1 0603 NP0 50V 33P P	1	PCS
C402	65G0603390 31	CHIP 39PF 50V NPO	1	PCS
C304	65G0603473 32	CHIP 0.047UF 50V X7R	1	PCS
C305	65G0603473 32	CHIP 0.047UF 50V X7R	1	PCS
C306	65G0603473 32	CHIP 0.047UF 50V X7R	1	PCS
C308	65G0603473 32	CHIP 0.047UF 50V X7R	1	PCS
C309	65G0603473 32	CHIP 0.047UF 50V X7R	1	PCS
C310	65G0603473 32	CHIP 0.047UF 50V X7R	1	PCS
C206	65G0805105 22	CHIP 1UF 25V X7R 0805	1	PCS
C611	65G0805105 22	CHIP 1UF 25V X7R 0805	1	PCS
FB202	71G 56Z601	CHIP BEAD 600 OHM 0805	1	PCS
FB401	71G 56Z601	CHIP BEAD 600 OHM 0805	1	PCS
FB402	71G 56Z601	CHIP BEAD 600 OHM 0805	1	PCS
FB403	71G 56Z601	CHIP BEAD 600 OHM 0805	1	PCS
FB404	71G 56Z601	CHIP BEAD 600 OHM 0805	1	PCS
FB405	71G 56Z601	CHIP BEAD 600 OHM 0805	1	PCS
FB406	71G 56Z601	CHIP BEAD 600 OHM 0805	1	PCS
FB601	71G 56Z601	CHIP BEAD 600 OHM 0805	1	PCS
FB603	71G 56Z601	CHIP BEAD 600 OHM 0805	1	PCS
FB304	71G 59B431	BK1608 HW 431	1	PCS
D318	93G 39147	TZMC5V6	1	PCS
D319	93G 39147	TZMC5V6	1	PCS
D320	93G 39147	TZMC5V6	1	PCS
D321	93G 39147	TZMC5V6	1	PCS
D322	93G 39147	TZMC5V6	1	PCS
D323	93G 39147	TZMC5V6	1	PCS
D304	93G 64 42 P	BAV70 SOT-23	1	PCS
D601	93G 6432V	LL4148-GS08	1	PCS

D301	93G 6433P	BAV99	1	PCS
D302	93G 6433P	BAV99	1	PCS
D303	93G 6433P	BAV99	1	PCS
D324	93G 6433P	BAV99	1	PCS
D317	93G 39S 39 T	MLL5234B	1	PCS
D201	93G1004 3	SS14	1	PCS
D202	93G1020 1 S	GS1D	1	PCS
	715L1423 1512	PCB	1	PCS
	AIK780KMN	KEY BOARD	1	PCS
CN103	33G3802 2H	WAFER 2P RIGHT ANGLE	1	PCS
CN104	33G3802 2H	WAFER 2P RIGHT ANGLE	1	PCS
CN101	33G801712A H	PIN HEADER 2*6 R/A	1	PCS
SW101	77L 600 1GHJ	KEY SWITCH	1	PCS
SW102	77L 600 1GHJ	KEY SWITCH	1	PCS
SW103	77L 600 1GHJ	KEY SWITCH	1	PCS
SW104	77L 600 1GHJ	KEY SWITCH	1	PCS
SW105	77L 600 1GHJ	KEY SWITCH	1	PCS
DP101	81G 12 1 GP	GP32032ME	1	PCS
CN102	88G 30211K	PHONE JACK 5PIN	1	PCS
	715L1222 B	PCB	1	PCS
R101	61G 60251152T	510 OHM 5% 1/6W	1	PCS
R102	61G 60251152T	510 OHM 5% 1/6W	1	PCS
	PW7425A3M2SMT	POWER BOARD FOR SMT	1	PCS
CN302	33G3278 3	3P PLUG B3B-XHA/JST	1	PCS
CN201	33G8021 2D U	3.5mm WAFER	1	PCS
CN202	33G8021 2D U	3.5mm WAFER	1	PCS
CN203	33G8021 2D U	3.5mm WAFER	1	PCS
CN204	33G8021 2D U	3.5mm WAFER	1	PCS
	40G 45762412B	CBPC LABEL	1.03	PCS
	52G 1174	TYPE	4	CM
IC902	56G 139 3A	PC123Y22FZOF	1	PCS
IC901	56G 379 32	SG6841DZ DIP-8	1	PCS
Q209	57G 761 6	2SC5706-P-E	1	PCS
Q210	57G 761 6	2SC5706-P-E	1	PCS
Q211	57G 761 6	2SC5706-P-E	1	PCS
Q212	57G 761 6	2SC5706-P-E	1	PCS
R919	61G 2J398 59	0.39 OHM 2W	1	PCS
NR901	61G 58080 WT	8 OHM NCT	1	PCS
R903	61G152M104 64	100KOHM 5% 2W	1	PCS

C904	63G 107474 HS	0.47UF +-20% 275VAC	1	PCS
C906	65G 2K152 5E6921	1500 PF 10% 2KV Y5P	1	PCS
C913	65G306M4722B2	Y1 4700PF +-20% 250VAC	1	PCS
C215	65L 3J2206ET	22PF 5% 3KV TDK	1	PCS
C216	65L 3J2206ET	22PF 5% 3KV TDK	1	PCS
C217	65L 3J2206ET	22PF 5% 3KV TDK	1	PCS
C218	65L 3J2206ET	22PF 5% 3KV TDK	1	PCS
C901	65L305M2222E3	2200PF+-20%400VAC BY TD	1	PCS
C902	65L305M2222E3	2200PF+-20%400VAC BY TD	1	PCS
C905	67G215S10115N	PAG450VB100-M-L18*35.5M	1	PCS
C201	67G215V102 3N GP	KY10VB1000M-CC3 10*16	1	PCS
C223	67G215V102 3N GP	KY10VB1000M-CC3 10*16	1	PCS
C922	67G215V102 3N GP	KY10VB1000M-CC3 10*16	1	PCS
C924	67G215V102 3N GP	KY10VB1000M-CC3 10*16	1	PCS
C925	67G215V102 3N GP	KY10VB1000M-CC3 10*16	1	PCS
L203	73G 174 30YSA	FILTER	1	PCS
L204	73G 174 30YSA	FILTER	1	PCS
L903	73G 253 91 H	CHOKE COIL	1	PCS
L904	73G 253 91 H	CHOKE COIL	1	PCS
L201	73G 253139LSL	CHOKE COIL	1	PCS
L202	73G 253139LSL	CHOKE COIL	1	PCS
L902	73L 174 26T1G	LINE LILT 0.45MM	1	PCS
PT201	80LL15T 7YSG	X'FMR	1	PCS
PT202	80LL15T 7YSG	X'FMR	1	PCS
T901	80LL17T 2 TG	X'FMR	1	PCS
F901	84G 7H200 SL	250V/2A LIHEL FUSE	1	PCS
CN301	88G 30210K E	PHONE JACK 5PIN	1	PCS
BD901	93G 50460502	KBP206G	1	PCS
CN102	95G8021 12520	WIRE HARNESS	1	PCS
	705L 780 57 02	CN901 ASS'Y	1	PCS
	705L 780 57 18	D910/D912 ASS'Y	1	PCS
	705L 780 5702A	Q903 ASS'Y	1	PCS
	PWPC7425A3M2AI	POWER BOARD FOR AI	1	PCS
U201	56G 622 1	BA9741F-SMT	1	PCS
Q205	57G 417 4	PMBS3904/PHILIPS-SMT (04	1	PCS
Q206	57G 417 4	PMBS3904/PHILIPS-SMT (04	1	PCS
Q207	57G 417 6	PMBS3906/PHILIPS-SMT (06	1	PCS
Q208	57G 417 6	PMBS3906/PHILIPS-SMT (06	1	PCS
Q202	57G 760 4A	DTA144WN3/S SOT-23	1	PCS

Q201	57G 760 5A	DTC 144WN3/S SOT-23	1	PCS
Q203	57G 763 3B	AM9435P.T1-PF SO-8	1	PCS
Q204	57G 763 3B	AM9435P.T1-PF SO-8	1	PCS
R929	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS
R931	61L0603102	RST SM 0603 RC0603 1K P	1	PCS
R216	61L0603221	RST SM 0603 RC0603 220R	1	PCS
R217	61L0603221	RST SM 0603 RC0603 220R	1	PCS
R925	61L0603362	CHIP 3.6K OHM 1/10W	1	PCS
R212	61L0603392	CHIP 3.9K OHM 1/10W	1	PCS
R213	61L0603392	CHIP 3.9K OHM 1/10W	1	PCS
R927	61L0805102	CHIPR 1K OHM +-5% 1/8W	1	PCS
R928	61L0805102	CHIPR 1K OHM +-5% 1/8W	1	PCS
R926	61L0805242	CHIP 2.4KOHM 1% 1/8W	1	PCS
R924	61L0805333	CHIP 33KOHM 1% 1/8W	1	PCS
R208	61L0805472	CHIPR 4.7K OHM +-5% 1/8	1	PCS
R209	61L0805472	CHIPR 4.7K OHM +-5% 1/8	1	PCS
R912	61L1206101	CHIP 100 OHM 5% 1/4W	1	PCS
R930	61L1206101	CHIP 100 OHM 5% 1/4W	1	PCS
R915	61L1206103	CHIP 10KOHM 5% 1/4W	1	PCS
R901	61L1206105	CHIP 1MOHM 5% 1/4W	1	PCS
R902	61L1206105	CHIP 1MOHM 5% 1/4W	1	PCS
R904	61L1206105	CHIP 1MOHM 5% 1/4W	1	PCS
R905	61L1206105	CHIP 1MOHM 5% 1/4W	1	PCS
R224	61L1206152	CHIPR 1.5K OHM+-5%1/4W	1	PCS
R225	61L1206152	CHIPR 1.5K OHM+-5%1/4W	1	PCS
R226	61L1206152	CHIPR 1.5K OHM+-5%1/4W	1	PCS
R227	61L1206152	CHIPR 1.5K OHM+-5%1/4W	1	PCS
R228	61L1206152	CHIPR 1.5K OHM+-5%1/4W	1	PCS
R229	61L1206152	CHIPR 1.5K OHM+-5%1/4W	1	PCS
R230	61L1206152	CHIPR 1.5K OHM+-5%1/4W	1	PCS
R231	61L1206152	CHIPR 1.5K OHM+-5%1/4W	1	PCS
R916	61L1206240 2F	CHIP 24KOHM1% 1/4W	1	PCS
R909	61L1206472	CHIP 4.7KOHM 5% 1/4W	1	PCS
R910	61L1206472	CHIP 4.7KOHM 5% 1/4W	1	PCS
R911	61L1206472	CHIP 4.7KOHM 5% 1/4W	1	PCS
R906	61L1206754	CHIP 750KOHM 5% 1/4W	1	PCS
R907	61L1206754	CHIP 750KOHM 5% 1/4W	1	PCS
C910	65G0805104 32	CHIP 0.1U 50V X7R	1	PCS
C927	65G0805104 32	CHIP 0.1U 50V X7R	1	PCS

C203	65G0805105 27	CHIP 1UF Y5V 0805	1	PCS
C209	65G0805105 27	CHIP 1UF Y5V 0805	1	PCS
C210	65G0805105 27	CHIP 1UF Y5V 0805	1	PCS
C211	65G0805105 27	CHIP 1UF Y5V 0805	1	PCS
C212	65G0805105 27	CHIP 1UF Y5V 0805	1	PCS
C219	65G0805105 27	CHIP 1UF Y5V 0805	1	PCS
C220	65G0805105 27	CHIP 1UF Y5V 0805	1	PCS
C224	65G0805105 27	CHIP 1UF Y5V 0805	1	PCS
C225	65G0805105 27	CHIP 1UF Y5V 0805	1	PCS
D203	93G 39S 3 T	BZT52-C11	1	PCS
D204	93G 39S 3 T	BZT52-C11	1	PCS
ZD904	93G 39S 19 T	PTZ7.5B	1	PCS
ZD901	93G 39S 20 T	RLZ22B LLDS	1	PCS
D201	93G2004 2A	SM240A DO-214AC	1	PCS
D202	93G2004 2A	SM240A DO-214AC	1	PCS
C905	6G 31502	1.5MM RIVET	2	PCS
L902	6G 31502	1.5MM RIVET	4	PCS
PT201	6G 31502	1.5MM RIVET	2	PCS
PT202	6G 31502	1.5MM RIVET	2	PCS
T901	6G 31502	1.5MM RIVET	4	PCS
	715L1243 2	PCB VER: B	1	PCS
R917	61G 17210052T	100HM 5% 1/4W	1	PCS
R243	61G 17210252T	1K OHM 5% 1/4W	1	PCS
R244	61G 17210252T	1K OHM 5% 1/4W	1	PCS
R918	61G 17210352T	CFR 10KOHM +-5% 1/4W	1	PCS
R908	61G 17268952T	6.8OHM 5% 1/4W	1	PCS
R920	61G 20747052T	47 OHM 1/2W	1	PCS
R922	61G 20747052T	47 OHM 1/2W	1	PCS
R218	61G 60210152T	100OHM +- 5% 1/6W	1	PCS
R219	61G 60210152T	100OHM +- 5% 1/6W	1	PCS
R232	61G 60210252T	CFR 1K OHM +-5% 1/6W	1	PCS
R233	61G 60210252T	CFR 1K OHM +-5% 1/6W	1	PCS
R202	61G 60210352T	CFR 10KOHM +-5% 1/6W	1	PCS
R203	61G 60210352T	CFR 10KOHM +-5% 1/6W	1	PCS
R204	61G 60210352T	CFR 10KOHM +-5% 1/6W	1	PCS
R222	61G 60212352T	12KOHM 5% 1/6W	1	PCS
R223	61G 60212352T	12KOHM 5% 1/6W	1	PCS
R238	61G 60212352T	12KOHM 5% 1/6W	1	PCS
R239	61G 60212352T	12KOHM 5% 1/6W	1	PCS

R210	61G 60215352T	15KOHM 5% 1/6W	1	PCS
R211	61G 60215352T	15KOHM 5% 1/6W	1	PCS
R220	61G 60215352T	15KOHM 5% 1/6W	1	PCS
R221	61G 60215352T	15KOHM 5% 1/6W	1	PCS
R214	61G 60222252T	2.2K 5% 1/6W	1	PCS
R215	61G 60222252T	2.2K 5% 1/6W	1	PCS
R201	61G 60230352T	30KOHM 5% 1/6W	1	PCS
R205	61G 60247352T	47KOHM 5% 1/6W	1	PCS
R206	61G 60247352T	47KOHM 5% 1/6W	1	PCS
R240	61G 60251352T	51KOHM +-5% 1/6W	1	PCS
R241	61G 60251352T	51KOHM +-5% 1/6W	1	PCS
R236	61G 60262152T	620 OHM 5% 1/6W	1	PCS
R237	61G 60262152T	620 OHM 5% 1/6W	1	PCS
R234	61G 60291152T	CFR 910 OHM+-5% 1/6W	1	PCS
R235	61G 60291152T	CFR 910 OHM+-5% 1/6W	1	PCS
FB902	71G 55 19 T	FERRITE BEAD D9X3. 5X0.	1	PCS
FB901	71G 55 29	FERRITE BEAD	1	PCS
ZD902	93G 39 5452T	HZ12B2-E	1	PCS
ZD903	93G 39 7752T	HZ5C1-E	1	PCS
D901	93G 6026T52T	RECTIFIER DIODE FR107	1	PCS
D902	93G 6038T52T	FR103	1	PCS
D205	93G 64 1152T	1N4148	1	PCS
D206	93G 64 1152T	1N4148	1	PCS
D207	93G 64 1152T	1N4148	1	PCS
D208	93G 64 1152T	1N4148	1	PCS
D209	93G 64 1152T	1N4148	1	PCS
D210	93G 64 1152T	1N4148	1	PCS
D903	93G 64 1152T	1N4148	1	PCS
IC903	56G 158 4 T A	H431BA	1	PCS
Q902	57G 419 PP T	2PC945P	1	PCS
Q901	57G 420 PP T	2PA733P	1	PCS
C911	64G700J1020AT	1000PF 50V PEN	1	PCS
C204	64G700J1040AT	0.1UF 50V PEN	1	PCS
C205	64G700J1040AT	0.1UF 50V PEN	1	PCS
C206	64G700J1040AT	0.1UF 50V PEN	1	PCS
C909	64G700J1040AT	0.1UF 50V PEN	1	PCS
C936	64G700J1040AT	0.1UF 50V PEN	1	PCS
C221	64G701J4740AT	0.47uF 50V	1	PCS
C222	64G701J4740AT	0.47uF 50V	1	PCS

C208	65G 44233113T	330PJNPO 50V	1	PCS
C398	65G 444471 5T	470P/50V DIP	1	PCS
C399	65G 444471 5T	470P/50V DIP	1	PCS
C908	65G 450104 7T	0.1UF +80-20% 50V Y5V	1	PCS
C920	65L517K102 5T6213	1000PF 10% Y5P 500V	1	PCS
C921	65L517K102 5T6213	1000PF 10% Y5P 500V	1	PCS
C907	67G 2152207NT	KY50VB22M-TP5 5*11	1	PCS
C926	67G 2154713NT	KY16VB470M-TP5 8*15	1	PCS
C207	67G 2154797NT	LOW ESR 4.7UF+-20% 50V	1	PCS
CN901	87T 501 12 CJ	AC SOCKET	1	PCS
	95T205S354022	HARNESS	1	PCS
	96T 29 6	SHRINK TUBE UL/CSA	20	MM
	90G6064 1	HEAT SINK	1	PCS
D912	93G 60217	FMB-29L	1	PCS
D910	93G 60239	FME-210B T0-220	1	PCS
	M1G1730 8128	SCREW M3x8	2	PCS
Q903	57G 724 4A	STP9NK60ZEP	1	PCS
	90G 407 2	HEAT SINK	1	PCS
	M1G1730 8128	SCREW M3x8	1	PCS
	33G4695 1 C	CLAMP	1	PCS
	33G4784 Q1 L	FUNCTION BUTTON	1	PCS
	33G4785 1 C	POWER LENS	1	PCS
	34G1271 2Y 6L	BEZEL	1	PCS
	34G1273 Y L	STAND	1	PCS
	37G 489 1	HINGE ASS'Y	1	PCS
	78G 322501 LV	SPEAKER	1	PCS
	78G 322501 RV	SPEAKER	1	PCS
	Q1G 330 8120	SCREW 3X8mm	2	PCS
	Q1G1030 8128	SCREW	1	PCS
	Q1G1030 10128	SCREW	2	PCS